

APPENDIX 1A LIST OF CATEGORY 5 IMPAIRED WATERS

The complete integrated list in Appendix 1 is a general list of all surface waters in Virginia. The Category 5 Impaired Waters List in Appendix 1a is a subset of the integrated list of waters in the Commonwealth which do not support one or more of the applicable designated uses (i.e. wildlife, aquatic life, fish consumption, shellfishing, recreation, and public water supply).

Priority for TMDL Development

Section 303(d) of the Clean Water Act and the Environmental Protection Agency's (EPA) regulation 40 CFR Section 130.7(d) (1) promulgated in July, 1992, requires each state to submit a Total Maximum Daily Load (TMDL) Priority List to EPA in even numbered years. TMDL development priority ranking for Category 5 impaired waters is based on two factors: 1) the severity of the impairment, including consideration of the number of designated uses not attained, number of pollutants responsible for the impairment, and the presence of endangered species in the impaired waters; and 2) the availability of "tools" to develop the TMDL. Tools include on-going data acquisition activities in the watershed, the existence of current data such as load allocations, and the interest, cooperation and backing of the public. Additionally, other programmatic requirements such as the need for the waste load allocation (WLA) component of a TMDL by a VPDES permit may be part of the tools necessary for priority ranking. Waters that are impaired and already have many of the TMDL tools available are generally defined as high priority for TMDL development. Waters with less severe impairments and those with fewer TMDL development tools are ranked medium or low priority for TMDL development.

Due to the TMDL requirements of the 1999 Consent Decree, the priority ranking for newly listed waters, which are not part of the Consent Decree schedule, will have to be considered on a case by case basis. It has become normal practice in Virginia that any new segments within a waterbody already scheduled for TMDL development will be included in that TMDL study, if appropriate.

TMDL development dates, localities, dates of listing, and other causes of impairments are found in the Impaired Waters List. Waters listed as impaired for the first time in the 2012 report are also listed separately in Appendix 1b.

All Category 5 waters are considered impaired and likely needing a TMDL. Most, but not necessarily all subcategories of Category 5 will require a TMDL. Waters categorized as 5A, 5B, or 5D in the 2012 Impaired Waters List are waters that DEQ believes need a TMDL study. 5C waters are believed to be impaired due to natural conditions. Further study of each Category 5C water is needed to determine if a TMDL is applicable or if changes to water quality standards are appropriate to reflect those natural conditions. Nevertheless, 5C waters are listed with TMDL development dates in the Impaired Waters List.

Category 5E waters are similar to Category 4B waters. They are expected to meet water quality standards through permitted limits established outside of a TMDL. 5E waters are waters where the VPDES compliance date is expected to extend beyond the next assessment report date (2014). They are not scheduled for TMDL development as the permit requires compliance with standards. One example of a "Category 5E" water is an existing facility that cannot be modified to meet new standards within the next two-year report cycle. In this example, a new facility would be necessary to replace the existing one and a compliance schedule would likely need to be issued with the permit during the interim construction.

Public Participation Process

DEQ invites public comment on the draft 2012 305(b)/303(d) Integrated Report from March 26 through April 27, 2012.

On March 26, the draft 2012 water quality report will be available on the DEQ website at www.deq.virginia.gov/wqa and via CD by request.

Written comments on the draft Integrated Report can be sent to: John Kennedy, DEQ Water Quality Monitoring and Assessment Manager, via e-mail attachment to, john.kennedy@deq.virginia.gov, or (US) mail to P.O. Box 1105, Richmond, Virginia 23218. Please include your name, (US mail) address, telephone number, and e-mail address.

Upon completion of the public participation process, DEQ will prepare a comment response document, make needed revisions to the report, and submit both to EPA. When EPA approves the final report it will be available for download via the Internet at www.deq.virginia.gov/wqa. When approved by EPA, the 2012 final report, including all appendices, will also be available on a compact disc. Map images of impaired waters (by major river basin or sub-basin) along with the entire report and all appendices will be included on these compact discs. These CDs can be pre-ordered now at no cost via the URL above or by calling DEQ at (804) 698-4575. A hard copy of the final 2012 maps can be pre-ordered for a fee that will cover publication and shipping costs. A print and mail order form for hard copy maps is available at the URL above.



2012 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
A02R-02-BEN Aquatic Life	North Fork Catoctin Creek Benthic-Macroinvertebrate Bioassessments	5A			4.18	2008	2020
A02R-03-BEN Aquatic Life	South Fork Catoctin Creek Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			3.40 2.98	2004 2008	2016 2020
A03R-02-BAC Recreation	Clarks Run Escherichia coli	5A			4.92	2008	2020
A03R-02-BEN Aquatic Life	Clarks Run Benthic-Macroinvertebrate Bioassessments	5A			4.92	2012	2024
A05R-01-BEN Aquatic Life	Wancopin Creek Benthic-Macroinvertebrate Bioassessments	5A			3.19	2008	2020
A05R-02-BEN Aquatic Life	Jeffries Branch Benthic-Macroinvertebrate Bioassessments	5A			5.89	2012	2024
A06R-01-BEN Aquatic Life	North Fork Goose Creek Benthic-Macroinvertebrate Bioassessments	5A			4.29	2010	2022
A07R-02-BEN Aquatic Life	North Fork Beaverdam Creek Benthic-Macroinvertebrate Bioassessments	5A			4.58	2008	2020
A08R-01-PCB Fish Consumption	Broad Run, Difficult Run, Goose Creek, Pimmit Run PCB in Fish Tissue	5A		39.63	18.92	2006	2018
A08R-03-BEN Aquatic Life	Little River Benthic-Macroinvertebrate Bioassessments	5A			4.03	2010	2022
A09R-01-BAC Recreation	Unnamed tributary to the Potomac River Escherichia coli	5A			1.86	2010	2022
A09R-01-BEN Aquatic Life	Broad Run Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			2.86 5.36	2006 2008	2018 2020
A09R-01-HG Fish Consumption	Broad Run Mercury in Fish Tissue	5A			2.86	2010	2022
A09R-02-BAC Recreation	Broad Run Escherichia coli	5A			3.13	2010	2022
A09R-02-BEN Aquatic Life	Broad Run Benthic-Macroinvertebrate Bioassessments	5A			1.33	2008	2020
A09R-03-BAC Recreation	Broad Run Escherichia coli	5A			1.33	2012	2024
A09R-03-BEN Aquatic Life	Horsepen Run Benthic-Macroinvertebrate Bioassessments	5A			3.33	2012	2024



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A10R-01-BAC Recreation	Sugarland Run Escherichia coli Escherichia coli	5A 5A			4.77 0.95	2002 2006	2014 2014
A10R-01-BEN Aquatic Life	Sugarland Run Benthic-Macroinvertebrate Bioassessments	5A			9.20	2012	2024
A11R-01-HEPOXID Fish Consumption	Difficult Run Heptachlor epoxide	5A			2.94	2006	2018
A11R-02-BAC Recreation	Mine Run Escherichia coli	5A			0.93	2006	2018
A11R-02-BEN Aquatic Life	Captain Hickory Run Benthic-Macroinvertebrate Bioassessments	5A			3.00	2008	2020
A11R-03-BEN Aquatic Life	Difficult Run Benthic-Macroinvertebrate Bioassessments	5A			5.85	2008	2020
A11R-04-BEN Aquatic Life	Colvin Run Benthic-Macroinvertebrate Bioassessments	5A			1.98	2010	2022
A11R-05-BEN Aquatic Life	Snakeden Branch Benthic-Macroinvertebrate Bioassessments	5A			0.79	2010	2022
A11R-06-BEN Aquatic Life	Little Difficult Run Benthic-Macroinvertebrate Bioassessments	5A			1.61	2010	2022
A11R-07-BEN Aquatic Life	Old Courthouse Spring Branch Benthic-Macroinvertebrate Bioassessments	5A			2.22	2010	2022
A11R-08-BAC Recreation	Nichols Run Escherichia coli	5A			4.69	2012	2024
A11R-08-BEN Aquatic Life	Turkey Run Benthic-Macroinvertebrate Bioassessments	5A			1.37	2012	2024
A11R-09-BEN Aquatic Life	Dead Run Benthic-Macroinvertebrate Bioassessments	5A			2.81	2012	2024
A12E-01-CDANE Fish Consumption	Fourmile Run Chlordane	5A	0.052			2010	2022
A12R-01-BEN Aquatic Life	Pimmit Run Benthic-Macroinvertebrate Bioassessments	5A			2.46	2012	2024
A12R-02-BAC Recreation	Pimmit Run Escherichia coli	5A			7.37	2010	2022
A12R-03-CDANE Fish Consumption	Pimmit Run Chlordane	5A			1.62	2006	2018
A12R-03-HEPOXID Fish Consumption	Pimmit Run Heptachlor epoxide	5A			1.62	2006	2018



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A12R-04-BAC Recreation	Little Pimmit Run Escherichia coli	5A			2.22	2012	2024
A13R-01-PCB Fish Consumption	Indian Run PCB in Fish Tissue	5A			2.94	2006	2018
A13R-03-BEN Aquatic Life	Holmes Run Benthic-Macroinvertebrate Bioassessments	5A			5.78	2004	2016
A13R-04-BEN Aquatic Life	Tripps Run Benthic-Macroinvertebrate Bioassessments	5A			2.24	2004	2016
A14R-01-BAC Recreation	Paul Springs Branch Escherichia coli	5A			3.12	2010	2022
A14R-01-BEN Aquatic Life	Paul Springs Branch Benthic-Macroinvertebrate Bioassessments	5A			3.12	2010	2022
A15E-01-PH Aquatic Life	Pohick Bay pH	5A	0.609			2012	2024
A15L-01-HG Fish Consumption	Lake Accotink Mercury in Fish Tissue	5A		75.73		2010	2022
A15L-01-PCB Fish Consumption	Lake Accotink PCB in Fish Tissue	5A		75.73		2010	2022
A15R-01-PCB Fish Consumption	Accotink Creek PCB in Fish Tissue	5A			7.34	2010	2022
A16E-01-BZOKFL Fish Consumption	Pohick Creek Benzo[k]fluoranthene	5A	0.292			2002	2014
A16R-01-BAC Recreation	Pohick Creek Escherichia coli	5A			3.21	2006	2018
A16R-02-BAC Recreation	Pohick Creek Escherichia coli Escherichia coli	5A 5A			1.52 4.94	2006 2012	2018 2024
A18R-02-BEN Aquatic Life	Lucky Run Benthic-Macroinvertebrate Bioassessments	5A			3.33	2008	2020
A21R-01-BEN Aquatic Life	Catharpin Creek Benthic-Macroinvertebrate Bioassessments	5A			6.26	2012	2024
A21R-01-PCB Fish Consumption	Bull Run PCB in Fish Tissue PCB in Fish Tissue	5A 5A			5.73 62.78	2004 2006	2016 2018
A22R-01-BEN Aquatic Life	Flatlick Branch Benthic-Macroinvertebrate Bioassessments	5A			5.58	2008	2020
A22R-02-BEN Aquatic Life	Big Rocky Run Benthic-Macroinvertebrate Bioassessments	5A			4.02	2010	2022



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A22R-03-BEN	Cub Run				6.73	2012	2024
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
A23R-03-BEN	Little Rocky Run				4.78	2010	2022
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
A24R-01-BAC	Wolf Run				2.11	2006	2018
Recreation	Escherichia coli	5A					
A24R-01-BEN	Wolf Run				2.11	2012	2024
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
A24R-02-BAC	Sandy Run				5.37	2008	2020
Recreation	Escherichia coli	5A					
A24R-03-BAC	Hooes Run				0.93	2012	2024
Recreation	Escherichia coli	5A					
A25E-02-BAC	Neabsco Creek					2004	2016
Recreation	Escherichia coli	5A	0.543				
A25E-03-BAC	Occoquan River					2004	2016
Recreation	Fecal Coliform	5A	0.068				
A25E-04-BAC	Marumsco Creek					2012	2024
Recreation	Escherichia coli	5A	0.025				
A25E-04-EBEN	Occoquan River					2006	2018
Aquatic Life	Estuarine Bioassessments	5A	0.286				
A25R-01-BEN	Giles Run				5.92	2012	2024
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
A25R-02-BAC	Mills Branch				1.71	2002	2014
Recreation	Fecal Coliform	5A					
A26E-01-BZOKFL	Powells Creek					2002	2014
Fish Consumption	Benzo[k]fluoranthene	5A	0.398				
A26E-03-EBEN	Quantico Creek					2006	2018
Aquatic Life	Estuarine Bioassessments	5A	0.426				
A26E-03-EBTOX	Quantico Creek					2006	2018
Aquatic Life	Sediment Bioassays for Estuarine and Marine Water	5A	0.426				
A26L-01-HG	Lake Montclair					2010	2022
Fish Consumption	Mercury in Fish Tissue	5A		98.03			
A26R-02-BAC	Powells Creek					2006	2014
Recreation	Escherichia coli	5A			4.62		
A26R-03-BAC	Quantico Creek					2004	2016
Recreation	Escherichia coli	5A			1.45		



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A26R-04-BAC Recreation	North Branch Chopawamsic Creek Escherichia coli	5A			6.90	2004	2016
A26R-05-BAC Recreation	South Fork Quantico Creek Escherichia coli	5A			4.63	2004	2016
A26R-07-BAC Recreation	Unnamed tributary to Potomac River Escherichia coli	5A			2.90	2010	2022
A27R-01-DO Aquatic Life	Unnamed tributary to Aquia Creek Oxygen, Dissolved	5A			2.08	2010	2022
A27R-02-BAC Recreation	Aquia Creek Escherichia coli	5A			8.17	2012	2024
A28R-01-BAC Recreation	Austin Run Escherichia coli	5A			0.79	2012	2016
A29E-02-BAC Recreation	Fairview Beach (Potomac River) Enterococcus	5A	0.012			2006	2018
A29E-03-BAC Recreation	Chotank Creek Enterococcus	5A	0.072			2012	2024
A29R-01-BAC Recreation	Accokeek Creek Escherichia coli	5A			4.21	2002	2014
A29R-02-BAC Recreation	Potomac Creek Escherichia coli	5A			2.18	2004	2016
A29R-03-BAC Recreation	Potomac Run Escherichia coli	5A			6.13	2006	2018
A30R-01-DO Aquatic Life	Pepper Mill Creek Oxygen, Dissolved	5C			8.64	2010	2022
A30R-01-PH Aquatic Life	Pepper Mill Creek pH	5C			8.64	2010	2022
A31E-01-BAC Recreation	Rosier Creek Enterococcus	5A	0.141			2010	2022
A31E-01-SF2 Shellfishing	Rosier Creek Fecal Coliform	5B	0.141			2006	2018
A31E-04-PH Aquatic Life	Monroe Creek pH	5C	0.176			2012	2024
A31E-11-BAC Recreation	Bridges Creek Enterococcus	5A	0.182			2012	2016
A31R-03-DO Aquatic Life	Popes Creek Watershed Oxygen, Dissolved	5C			25.35	2006	2018



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A31R-03-PH Aquatic Life	Popes Creek Watershed pH	5C			25.35	2006	2018
A31R-04-DO Aquatic Life	Monroe Creek Watershed Oxygen, Dissolved	5C			11.85	2006	2018
A31R-04-PH Aquatic Life	Monroe Creek Watershed pH	5C			11.85	2006	2018
A31R-05-DO Aquatic Life	Canal Swamp Watershed Oxygen, Dissolved	5C			11.26	2012	2024
A31R-05-PH Aquatic Life	Canal Swamp Watershed pH	5C			11.26	2012	2024
A32E-04-SF2 Shellfishing	Nomini Creek, Peirce Creek Fecal Coliform	5B	0.459			2004	2016
A32E-13-SF Shellfishing	Currioman Creek Fecal Coliform	5B	0.020			2008	2020
A32E-14-SF Shellfishing	Poor Jack Creek Fecal Coliform	5B	0.147			2008	2020
A32E-15-SF Shellfishing	Davis Creek Fecal Coliform	5B	0.016			2008	2020
A32E-16-SF Shellfishing	Jules Creek Fecal Coliform	5B	0.045			2008	2020
A32E-17-SF Shellfishing	Matthews Cove Fecal Coliform	5B	0.019			2008	2020
A32E-21-SF Shellfishing	North Prong Buckner Creek Fecal Coliform	5B	0.031			2008	2020
A32E-22-SF Shellfishing	Lower Machodoc Creek Fecal Coliform	5B	0.161			2012	2024
A32E-23-SF Shellfishing	Lower Machodoc Creek, UT Fecal Coliform	5B	0.059			2012	2024
A32E-24-SF Shellfishing	Glebe Creek Fecal Coliform	5B	0.042			2012	2024
A32R-01-DO Aquatic Life	Thompson Branch Oxygen, Dissolved	5C			1.65	2006	2018
A32R-01-PH Aquatic Life	Thompson Branch pH	5C			1.65	2006	2018
A32R-02-DO Aquatic Life	Lee Creek Oxygen, Dissolved	5C			1.35	2010	2022



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A32R-03-PH Aquatic Life	Nomini Creek, UT pH	5C			1.45	2010	2022
A32R-05-PH Aquatic Life	Tavern Run pH	5C			3.41	2012	2024
A33E-12-SF Shellfishing	Shannon Branch Fecal Coliform	5B	0.036			2006	2018
A33E-16-SF Shellfishing	West Yeocomico River Fecal Coliform	5B	0.030			2012	2024
A33E-19-SF Shellfishing	Dungan Cove Fecal Coliform	5B	0.005			2008	2020
A33R-01-BAC Recreation	Mill Creek Escherichia coli	5A			4.93	2010	2014
A33R-02-DO Aquatic Life	Lodge Creek Oxygen, Dissolved	5C			3.48	2010	2022
A33R-03-DO Aquatic Life	Gardner Creek Oxygen, Dissolved	5C			1.17	2010	2022
A33R-03-PH Aquatic Life	Gardner Creek pH	5C			1.17	2010	2022
A34E-01-SF2 Shellfishing	The Glebe - PARTIAL DELIST Fecal Coliform	5B	0.045			2004	2016
A34E-16-SF2 Shellfishing	Little Wicomico River Fecal Coliform	5B	0.259			2004	2016
A34E-17-SF Shellfishing	Bridge Creek Fecal Coliform	5B	0.115			2006	2018
A34E-21-SF Shellfishing	Kingscote Creek Fecal Coliform	5B	0.009			2006	2018
A34E-25-SF Shellfishing	Boathouse Creek Fecal Coliform	5B	0.067			2004	2016
A34E-28-SF Shellfishing	Slough Creek Fecal Coliform	5B	0.054			2006	2018
A34E-29-SF Shellfishing	Ellyson Creek Fecal Coliform	5B	0.068			2006	2018
A34E-30-SF Shellfishing	Little Wicomico River Fecal Coliform	5B	0.044			2006	2018
A34E-31-BAC Recreation	Little Wicomico River Enterococcus	5A	0.465			2006	2018



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A34E-32-SF	Coan River - PARTIAL DELIST						
Shellfishing	Fecal Coliform	5B	0.011			2004	2016
A34E-33-SF	Bridgemans Back Creek						
Shellfishing	Fecal Coliform	5B	0.031			2008	2020
A34E-34-SF	Back Creek						
Shellfishing	Fecal Coliform	5B	0.042			2008	2020
A34E-35-SF	Little Wicomico River, UT						
Shellfishing	Fecal Coliform	5B	0.024			2012	2024
A34R-02-PH	Little Wicomico River						
Aquatic Life	pH	5C			2.38	2006	2018
A34R-03-DO	Coan Mill Stream, UT						
Aquatic Life	Oxygen, Dissolved	5C			2.10	2010	2022
B02R-01-BAC	West Strait Creek						
Recreation	Escherichia coli	5A			0.85	2010	2022
B02R-06-BAC	Strait Creek						
Recreation	Escherichia coli	5A			5.99	2006	2018
B03R-03-BAC	South Fork South Branch Potomac River						
Recreation	Escherichia coli	5A			2.46	2012	2024
B05R-01-BAC	Back Creek						
Recreation	Escherichia coli	5A			17.06	2010	2022
B05R-02-BAC	Little Isaacs Creek						
Recreation	Escherichia coli	5A			9.53	2008	2020
B07R-01-BAC	Babbs Run						
Recreation	Fecal Coliform	5A			11.46	2004	2016
	Escherichia coli	5A			11.46	2010	2016
B09R-04-BEN	Redbud Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.04	2004	2016
B12R-01-PCB	Lewis Creek						
Fish Consumption	PCB in Fish Tissue	5A			9.74	2004	2016
B12R-02-BEN	Middle River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			22.67	2010	2022
B14R-03-TEMP	Long Meadow Run						
Aquatic Life	Temperature, water	5C			10.06	2006	2018
B16L-01-TEMP	Elkhorn Lake						
Aquatic Life	Temperature, water	5A		50.70		2010	2022
B16L-02-PH	Staunton Dam Lake						
Aquatic Life	pH	5A		20.60		2006	2018



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B16R-01-PH	North River						
Aquatic Life	pH	5A			4.47	2002	2014
B18R-01-BEN	Wolf Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.18	2002	2014
	Benthic-Macroinvertebrate Bioassessments	5A			1.98	2004	2016
B18R-01-PH	Wolf Run						
Aquatic Life	pH	5A			3.16	2006	2018
B18R-02-PH	Briery Branch						
Aquatic Life	pH	5C			7.01	2002	2014
B18R-06-PH	Rocky Run						
Aquatic Life	pH	5A			1.95	2006	2018
B18R-07-PH	Union Springs Run						
Aquatic Life	pH	5A			3.64	2006	2018
B20L-01-TEMP	Switzer Lake						
Aquatic Life	Temperature, water	5A		99.49		2006	2018
B20R-01-PH	Dry River						
Aquatic Life	pH	5A			9.54	2002	2014
	pH	5A			3.95	2004	2014
	pH	5A			0.64	2008	2014
B30R-02-PH	Loves Run						
Aquatic Life	pH	5A			5.44	2006	2018
B31L-01-PH	Coles Run Reservoir						
Aquatic Life	pH	5A		11.44		2008	2020
B31R-01-BAC	Back Creek						
Recreation	Escherichia coli	5A			12.77	2012	2024
B31R-01-BEN	Back Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			12.77	2002	2014
B31R-02-BEN	Mills Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.87	2002	2014
B31R-04-PH	Coles Run						
Aquatic Life	pH	5A			6.11	2006	2018
B31R-05-PH	Johns Run						
Aquatic Life	pH	5A			4.86	2006	2018
B31R-06-PH	Kennedy Creek						
Aquatic Life	pH	5A			9.49	2006	2018
B31R-07-PH	Orebank Creek						
Aquatic Life	pH	5A			3.00	2006	2018



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B32R-02-PCB	South River						
Fish Consumption	PCB in Fish Tissue	5A			5.29	2008	2020
B32R-03-PH	Paine Run						
Aquatic Life	pH	5A			6.25	2004	2016
B32R-04-PH	Meadow Run						
Aquatic Life	pH	5A			6.87	2004	2016
B33R-02-PH	Deep Run						
Aquatic Life	pH	5A			4.32	2004	2016
B33R-03-PH	Lower Lewis Run						
Aquatic Life	pH	5A			3.68	2006	2018
B35R-01-BAC	Boone Run						
Recreation	Fecal Coliform	5A			13.11	2002	2014
	Escherichia coli	5A			13.11	2010	2014
B35R-02-BAC	Quail Run						
Recreation	Fecal Coliform	5A			4.89	2004	2016
	Escherichia coli	5A			4.89	2008	2016
	Escherichia coli	5A			1.28	2010	2016
B35R-03-BEN	Quail Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5C			1.28	2002	2014
B35R-04-PH	Two Mile Run						
Aquatic Life	pH	5A			4.69	2006	2018
B35R-05-PH	One Mile Run						
Aquatic Life	pH	5A			6.48	2010	2022
B37R-01-PCB	South Fork Shenandoah River						
Fish Consumption	PCB in Fish Tissue	5A			18.26	2010	2022
B37R-02-BAC	Line Run						
Recreation	Escherichia coli	5A			3.90	2006	2018
B37R-03-BAC	Honey Run						
Recreation	Escherichia coli	5A			4.53	2008	2020
B37R-04-TEMP	Cub Run						
Aquatic Life	Temperature, water	5A			9.62	2012	2024
B38R-02-BAC	Big Run						
Recreation	Escherichia coli	5A			5.40	2006	2018
B39R-03-BEN	East Hawksbill Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.13	2008	2020
B39R-03-PH	Rocky Branch						
Aquatic Life	pH	5A			4.18	2004	2016



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Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause						
B39R-03-TEMP	Pass Run						
Aquatic Life	Temperature, water	5A			9.07	2010	2022
B39R-04-BEN	Dry Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.32	2012	2024
B40R-01-BAC	Jeremys Run						
Recreation	Escherichia coli	5A			10.94	2012	2024
B40R-01-PH	Jeremys Run						
Aquatic Life	pH	5A			10.94	2004	2016
B40R-02-BAC	Flint Run						
Recreation	Fecal Coliform	5A			11.39	2004	2016
B40R-03-BAC	Gooney Run						
Recreation	Escherichia coli	5A			18.37	2010	2022
B40R-03-TEMP	Gooney Run						
Aquatic Life	Temperature, water	5A			18.37	2006	2018
B40R-04-TEMP	Flint Run						
Aquatic Life	Temperature, water	5A			3.99	2010	2022
B41R-01-BAC	Happy Creek						
Recreation	Fecal Coliform	5A			8.42	2004	2016
B41R-03-BEN	Happy Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.42	2008	2020
B41R-04-BAC	South Fork Shenandoah River						
Recreation	Escherichia coli	5A			4.31	2010	2022
	Escherichia coli	5A			5.72	2012	2022
B42R-01-BAC	Crab Run						
Recreation	Escherichia coli	5A			3.77	2010	2022
B42R-01-BEN	North Fork Shenandoah River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.50	2010	2022
B45R-01-BEN	Long Meadow Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.53	2002	2014
B45R-02-BEN	Turley Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.01	2002	2014
B45R-05-BEN	North Fork Shenandoah River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			11.81	2008	2020
	Benthic-Macroinvertebrate Bioassessments	5A			1.79	2012	2020
B47R-01-BEN	Fridley Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.39	2002	2014
B47R-01-PH	Fridley Run						
Aquatic Life	pH	5A			2.39	2006	2014



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Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
	Impaired Use	Cause					
B47R-04-BEN	Mountain Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.98	2002	2014
B47R-07-BEN	Dry Fork						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.06	2006	2018
B48R-02-BEN	Crooked Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.89	2008	2020
B49R-01-BEN	Stony Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.76	2008	2020
B49R-04-BEN	Laurel Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.72	2002	2014
B49R-05-BEN	Little Stony Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.24	2004	2016
B49R-05-TEMP	Little Stony Creek						
Aquatic Life	Temperature, water	5A			4.85	2012	2024
B49R-07-TEMP	Stony Creek						
Aquatic Life	Temperature, water	5A			4.64	2002	2018
	Temperature, water	5A			4.54	2004	2018
	Temperature, water	5A			9.23	2006	2018
B50R-03-BAC	Pughs Run						
Recreation	Fecal Coliform	5A			5.86	2004	2016
	Escherichia coli	5A			5.86	2008	2016
B50R-03-BEN	Pughs Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.86	2012	2024
B51R-01-BAC	Tumbling Run						
Recreation	Fecal Coliform	5A			4.13	2004	2016
	Escherichia coli	5A			4.13	2008	2016
B51R-02-BAC	North Fork Shenandoah River						
Recreation	Escherichia coli	5A			5.29	2008	2020
	Escherichia coli	5A			6.17	2010	2020
B52R-03-BEN	Cedar Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.53	2002	2014
B52R-04-BAC	Cedar Creek						
Recreation	Escherichia coli	5A			7.45	2012	2024
B53R-01-BAC	Cedar Creek						
Recreation	Escherichia coli	5A			14.19	2008	2020
B54R-01-BAC	Passage Creek						
Recreation	Fecal Coliform	5A			18.47	2006	2016
	Escherichia coli	5A			18.47	2008	2016



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
B54R-01-PH Aquatic Life	Passage Creek pH	5A			5.22	2010	2020
B55R-01-BAC Recreation	Manassas Run Fecal Coliform	5A			9.15	2004	2016
B55R-02-BAC Recreation	Borden Marsh Run Escherichia coli	5A			9.46	2006	2018
B55R-03-BAC Recreation	Willow Brook Escherichia coli	5A			3.95	2006	2018
B56R-01-BAC Recreation	Crooked Run Fecal Coliform Escherichia coli	5A 5A			8.87 8.87	2002 2008	2014 2014
B56R-01-DO Aquatic Life	Crooked Run Oxygen, Dissolved	5A			8.87	2008	2020
B56R-02-BAC Recreation	Stephens Run Escherichia coli	5A			0.95	2010	2020
B56R-02-DO Aquatic Life	Stephens Run Oxygen, Dissolved	5A			0.95	2008	2020
B56R-03-BAC Recreation	West Run Escherichia coli	5A			6.12	2010	2020
B57R-02-BAC Recreation	Long Branch Fecal Coliform Escherichia coli	5A 5A			3.63 3.63	2004 2008	2016 2016
B57R-03-BAC Recreation	Chapel Run Escherichia coli	5A			9.44	2008	2020
B57R-03-BEN Aquatic Life	Chapel Run Benthic-Macroinvertebrate Bioassessments	5A			9.44	2006	2018
B57R-04-TEMP Aquatic Life	Roseville Run Temperature, water	5A			3.94	2010	2022
B58R-02-BAC Recreation	Dog Run Escherichia coli	5A			4.80	2008	2020
B58R-03-BAC Recreation	Wheat Spring Branch Escherichia coli	5A			4.35	2008	2020
B58R-04-BAC Recreation	Long Marsh Run Escherichia coli	5A			5.55	2012	2024
B58R-05-BAC Recreation	Shenandoah River Escherichia coli	5A			8.24	2012	2024



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Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause						

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
G01E-02-EBEN Aquatic Life	James River Estuarine Bioassessments	5A	31.343			2012	2024
G01E-03-PCB Fish Consumption	James River and Various Tributaries PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue	5A 5A 5A 5A 5A	62.773 1.837 191.964 0.012 0.003		7.49	2002 2004 2006 2008 2010	2014 2016 2018 2014 2018
G01L-01-DO Aquatic Life	Falling Creek Reservoir Oxygen, Dissolved	5A		88.37		2012	2024
G01R-01-PCB Fish Consumption	Goode Creek PCB in Water Column	5A			1.25	2012	2024
G01R-02-CU Aquatic Life Wildlife	XVP - Almond Creek, UT Copper Copper	5A 5A			0.36 0.36	2012 2012	2024 2024
G01R-02-PCB Fish Consumption	Almond Creek PCB in Water Column	5A			2.36	2012	2024
G01R-02-PH Aquatic Life	XVO and XVP (Almond Creek, UTs) pH	5A			0.82	2004	2016
G01R-02-ZN Aquatic Life Wildlife	XVP - Almond Creek, UT Zinc Zinc	5A 5A			0.36 0.36	2012 2012	2024 2024
G01R-04-DO Aquatic Life	Falling Creek Oxygen, Dissolved	5A			0.98	2008	2020
G01R-05-PH Aquatic Life	Kingsland Creek pH	5C			8.50	2006	2018
G01R-06-PCB Fish Consumption	Gillies Creek PCB in Water Column	5A			6.02	2012	2024
G01R-06-PH Aquatic Life	Gillies Creek pH	5A			6.02	2004	2016
G01R-07-DO Aquatic Life	Redwater Creek Oxygen, Dissolved	5C			2.94	2010	2022
G01R-09-DO Aquatic Life	UT to James River - XPF Oxygen, Dissolved	5C			0.39	2004	2016
G01R-09-PH Aquatic Life	UT to James River - XPF pH	5C			0.39	2004	2016
G01R-12-DO Aquatic Life	Coles Run, UT Oxygen, Dissolved	5C			0.63	2006	2018



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James River Basin		Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause									
G01R-12-PH	Coles Run, UT									
Aquatic Life	pH				5C			0.63	2006	2018
G01R-15-BEN	Proctors Creek									
Aquatic Life	Benthic-Macroinvertebrate Bioassessments				5A			7.92	2010	2022
G02E-04-PCB	James River									
Fish Consumption	PCB in Water Column				5A	3.971			2012	2024
Public Water Supply	PCB in Water Column				5A	3.971			2012	2024
G02R-02-DO	Roundabout Creek									
Aquatic Life	Oxygen, Dissolved				5C			2.05	2006	2018
G02R-02-PH	Roundabout Creek									
Aquatic Life	pH				5C			2.05	2004	2016
G02R-03-DO	Johnson Creek Watershed									
Aquatic Life	Oxygen, Dissolved				5C			16.24	2004	2016
G02R-03-PH	Johnson Creek Watershed									
Aquatic Life	pH				5C			16.24	2004	2016
G02R-04-DO	Western Run									
Aquatic Life	Oxygen, Dissolved				5C			1.84	2008	2020
G02R-05-BAC	Crewes Channel									
Recreation	Escherichia coli				5A			3.19	2008	2020
G02R-05-DO	Crewes Channel									
Aquatic Life	Oxygen, Dissolved				5C			3.19	2012	2024
G02R-05-PH	Crewes Channel									
Aquatic Life	pH				5C			3.19	2004	2016
G02R-07-BAC	Western Run									
Recreation	Escherichia coli				5A			1.84	2006	2018
G02R-08-DO	Turkey Island Creek									
Aquatic Life	Oxygen, Dissolved				5C			9.43	2008	2020
G03E-01-PCB	Bailey Creek (tidal), Cattail Creek (tidal)									
Fish Consumption	PCB in Water Column				5A	0.123			2012	2024
G03E-01-PH	Bailey Creek (tidal), Cattail Creek (tidal)									
Aquatic Life	pH				5A	0.123			2004	2016
G03L-01-DO	Harrison Lake									
Aquatic Life	Oxygen, Dissolved				5A			60.15	2006	2018
G03L-01-HG	Harrison Lake									
Fish Consumption	Mercury in Fish Tissue				5A			60.15	2008	2020
G03L-01-PH	Harrison Lake									
Aquatic Life	pH				5A			60.15	2006	2018



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
G03R-02-ALD Fish Consumption	Bailey Creek Aldrin	5A			5.98	2002	2014
G03R-02-DO Aquatic Life	Bailey Creek Oxygen, Dissolved	5A			0.89	2008	2020
G03R-02-PCB Fish Consumption	Bailey Creek PCB in Fish Tissue	5A			5.98	2002	2014
G03R-03-PCB Aquatic Life	Poythress Run PCB in Water Column	5A			0.39	2012	2024
Fish Consumption	PCB in Water Column	5A			0.39	2012	2024
Wildlife	PCB in Water Column	5A			0.39	2012	2024
G03R-04-BAC Recreation	West Run Escherichia coli	5A			1.86	2010	2022
G03R-04-PH Aquatic Life	West Run pH	5C			1.86	2004	2016
G03R-05-PCB Fish Consumption	XYO - Cattail Creek, UT PCB in Water Column	5A			0.34	2012	2024
G03R-06-BEN Aquatic Life	UT (XUD) to West Run Benthic-Macroinvertebrate Bioassessments	5A			1.57	2008	2020
G03R-06-PH Aquatic Life	UT (XUD) to West Run pH	5C			1.57	2006	2018
G04E-02-EBEN Aquatic Life	James River Estuarine Bioassessments	5A	20.400			2004	2016
G04L-01-DO Aquatic Life	Sunken Meadow Pond Oxygen, Dissolved	5C		172.85		2010	2022
G04R-01-BAC Recreation	Wards Creek Escherichia coli	5A			8.46	2006	2018
G04R-02-BAC Recreation	Upper Chippokes Creek Escherichia coli	5A			5.61	2008	2020
G04R-03-MIREX Aquatic Life	Bailey Branch Mirex	5A			5.24	2010	2022
Wildlife	Mirex	5A			5.24	2010	2022
G05R-01-DO Aquatic Life	Chickahominy River, UT - Unnamed Tributary Oxygen, Dissolved	5A			1.15	2008	2020
G05R-01-NH3 Aquatic Life	Chickahominy River, UT - Unnamed Tributary Ammonia (Un-ionized)	5A			1.15	2008	2020
Wildlife	Ammonia (Un-ionized)	5A			1.15	2008	2020
G05R-03-BAC Recreation	Chickahominy River Escherichia coli	5A			14.33	2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
G05R-04-BEN	Chickahominy River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.06	2010	2022
G05R-04-PH	Chickahominy River						
Aquatic Life	pH	5C			7.06	2010	2022
	pH	5C			2.30	2012	2022
G05R-05-BAC	Stony Run						
Recreation	Escherichia coli	5A			0.21	2010	2016
G05R-06-BEN	Grassy Swamp Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.02	2008	2020
G05R-06-DO	Grassy Swamp Creek						
Aquatic Life	Oxygen, Dissolved	5C			1.02	2008	2020
G05R-07-DO	Chickahominy River, UT (XDD)						
Aquatic Life	Oxygen, Dissolved	5C			0.52	2006	2018
G05R-07-PH	Chickahominy River, UT (XDD)						
Aquatic Life	pH	5C			0.52	2006	2018
G05R-08-DO	Upham Brook, UT (XAR)						
Aquatic Life	Oxygen, Dissolved	5A			1.20	2006	2018
G05R-09-BEN	North Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.62	2008	2020
G05R-09-PH	North Run						
Aquatic Life	pH	5A			3.62	2006	2018
G05R-10-DO	Upham Brook						
Aquatic Life	Oxygen, Dissolved	5A			1.20	2008	2020
G05R-11-DO	Upham Brook, UT (XXP)						
Aquatic Life	Oxygen, Dissolved	5C			1.49	2008	2020
G05R-12-BAC	Upper Stony Run and Tributaries						
Recreation	Escherichia coli	5A			24.15	2012	2024
G05R-12-DO	Upper Stony Run and Tributaries						
Aquatic Life	Oxygen, Dissolved	5C			24.15	2012	2024
G05R-12-PH	Upper Stony Run and Tributaries						
Aquatic Life	pH	5C			24.15	2012	2024
G06R-01-HG	Chickahominy River						
Fish Consumption	Mercury in Fish Tissue	5A			7.53	2010	2022
G06R-06-PH	Beaverdam Creek						
Aquatic Life	pH	5C			6.68	2004	2016
G06R-07-DO	Boatswain Creek						
Aquatic Life	Oxygen, Dissolved	5C			3.76	2012	2024



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G06R-07-PH Aquatic Life	Boatswain Creek pH	5C			3.76	2004	2016
G06R-11-DO Aquatic Life	Bloody Run Oxygen, Dissolved	5C			1.01	2004	2016
G06R-11-PH Aquatic Life	Bloody Run pH	5C			1.01	2004	2016
G06R-12-BAC Recreation	Beaverdam Creek Escherichia coli	5A			6.68	2006	2018
G06R-13-BAC Recreation	Boatswain Creek Escherichia coli	5A			3.76	2006	2018
G06R-14-BAC Recreation	Chickahominy River Escherichia coli	5A			7.53	2008	2020
G06R-14-PH Aquatic Life	Possum Run pH	5C			4.80	2008	2020
G07L-01-HG Fish Consumption	Chickahominy Lake Mercury in Fish Tissue	5A		1,049.46		2008	2020
G07R-01-BAC Recreation	Collins Run Escherichia coli	5A			4.49	2010	2014
G07R-01-DO Aquatic Life	Collins Run Oxygen, Dissolved	5C			4.49	2010	2022
G07R-01-PH Aquatic Life	Collins Run pH	5C			4.49	2012	2024
G07R-02-DO Aquatic Life	Rumley Marsh Oxygen, Dissolved	5C			5.90	2002	2014
G07R-02-PH Aquatic Life	Rumley Marsh pH	5C			5.90	2010	2022
G07R-03-DO Aquatic Life	Pelham Swamp Oxygen, Dissolved	5C			1.57	2010	2022
G07R-04-BAC Recreation	Schiminoe Creek Escherichia coli	5A			6.22	2012	2024
G07R-04-DO Aquatic Life	Schiminoe Creek Oxygen, Dissolved	5C			6.22	2012	2024
G07R-04-PH Aquatic Life	Schiminoe Creek pH	5C			6.22	2012	2024
G07R-05-PH Aquatic Life	XAA - Rumley Marsh, UT pH	5C			1.75	2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
G07R-06-DO Aquatic Life	XWS - Rumley Marsh, UT Oxygen, Dissolved	5C			2.17	2012	2024
G07R-06-PH Aquatic Life	XWS - Rumley Marsh, UT pH	5C			2.17	2012	2024
G07R-07-PH Aquatic Life	XAB - Collins Run, UT pH	5C			1.72	2012	2024
G08E-03-BAC Recreation	Diascund Creek Enterococcus	5A	0.272			2010	2022
G08E-04-BAC Recreation	Chickahominy River Enterococcus	5A	5.899			2006	2018
G08E-05-BAC Recreation	Gordon Creek Enterococcus	5A	0.296			2012	2024
G08E-07-EBEN Aquatic Life	Chickahominy River, UT (XAC) Estuarine Bioassessments	5A	0.017			2010	2022
G08R-02-BAC Recreation	Mill Creek Escherichia coli	5A			4.88	2012	2016
G08R-02-DO Aquatic Life	Mill Creek Oxygen, Dissolved	5C			4.88	2004	2016
G08R-04-DO Aquatic Life	Yarmouth Creek Oxygen, Dissolved	5C			4.11	2012	2024
G09L-01-HG Fish Consumption	Diascund Creek Reservoir Mercury in Fish Tissue	5A		1,055.04		2010	2022
G09R-01-BAC Recreation	Beaverdam Creek Escherichia coli	5A			4.35	2012	2024
G09R-01-DO Aquatic Life	Beaverdam Creek Oxygen, Dissolved	5C			4.35	2002	2014
G09R-01-PH Aquatic Life	Beaverdam Creek pH	5C			4.35	2012	2024
G09R-02-BAC Recreation	Diascund Creek Escherichia coli	5A			6.88	2008	2020
G09R-02-DO Aquatic Life	Diascund Creek Oxygen, Dissolved	5C			6.88	2008	2020
G09R-02-PH Aquatic Life	Diascund Creek pH	5C			6.88	2012	2024
G09R-03-DO Aquatic Life	XAL - Diascund Creek, UT Oxygen, Dissolved	5C			1.22	2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
G09R-03-PH Aquatic Life	XAL - Diascund Creek, UT pH	5C			1.22	2012	2024
G09R-04-DO Aquatic Life	XAK - Diascund Creek, UT Oxygen, Dissolved	5C			2.91	2012	2024
G09R-05-DO Aquatic Life	XAJ - Diascund Creek, UT Oxygen, Dissolved	5C			3.19	2012	2024
G09R-06-BAC Recreation	XAH - Beaverdam Creek, UT Escherichia coli	5A			2.23	2012	2024
G09R-06-DO Aquatic Life	XAH - Beaverdam Creek, UT Oxygen, Dissolved	5C			2.23	2012	2024
G10E-05-EBEN Aquatic Life	James River Mainstem - Chickahominy R. to Hog Point Estuarine Bioassessments	5A	26.404			2004	2016
	Estuarine Bioassessments	5A	0.568			2012	2016
G10E-06-BAC Recreation	College Creek Enterococcus	5A	0.568			2006	2018
G10R-01-BAC Recreation	College Run Fecal Coliform	5A			2.39	2002	2014
G10R-02-BEN Aquatic Life	Powhatan Creek Benthic-Macroinvertebrate Bioassessments	5A			5.35	2002	2014
G10R-03-BAC Recreation	Dark Swamp, UT (XHC) Escherichia coli	5A			1.30	2012	2024
G10R-03-DO Aquatic Life	Dark Swamp, UT (XHC) Oxygen, Dissolved	5A			1.30	2010	2022
G10R-04-BAC Recreation	Unnamed tributary to Mill Creek Escherichia coli	5A			1.19	2012	2024
G11E-16-SF2 Shellfishing	Pagan River-Upstream of Chalmers Point Fecal Coliform	5B	0.178			2008	2024
G11E-18-SF Shellfishing	Tylers Beach Boat Basin Fecal Coliform	5B	0.003			2004	2016
G11E-20-BAC Recreation	James River - Hilton Beach Area Enterococcus	5A	0.110			2012	2024
G11L-01-CU Aquatic Life	Lee Hall Reservoir Copper	5A		290.06		2004	2016
Wildlife	Copper	5A		290.06		2004	2016
G11L-01-HG Fish Consumption	Lee Hall Reservoir Mercury in Fish Tissue	5A		290.06		2010	2022
G11L-01-PCB Fish Consumption	Lee Hall Reservoir PCB in Fish Tissue	5A		290.06		2010	2022



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G11L-02-DO Aquatic Life	Lone Star Lake G Oxygen, Dissolved	5A		89.61		2006	2018
G11L-03-DO Aquatic Life	Lone Star Lake I Oxygen, Dissolved	5A		33.08		2006	2018
G11L-03-TP Aquatic Life	Lone Star Lake I Phosphorus (Total)	5A		33.08		2010	2022
G11L-04-DO Aquatic Life	Lone Star Lake F Oxygen, Dissolved	5A		18.69		2006	2018
G11R-02-BEN Aquatic Life	Chuckatuck Creek Benthic-Macroinvertebrate Bioassessments	5A			1.44	2004	2016
G11R-03-BAC Recreation	Champion Swamp Escherichia coli	5A			3.18	2010	2022
G11R-03-BEN Aquatic Life	Champion Swamp Benthic-Macroinvertebrate Bioassessments	5A			3.18	2012	2024
G11R-04-BAC Recreation	Pagan River (including Wrenns Millpond) Escherichia coli	5A			1.30	2012	2024
G12L-01-DO Aquatic Life	Lake Cahoon Oxygen, Dissolved	5A		454.16		2006	2018
G12L-02-DO Aquatic Life	Lake Meade Oxygen, Dissolved	5A		489.61		2006	2018
G12L-02-TP Aquatic Life	Lake Meade Phosphorus (Total)	5A		489.61		2012	2024
G12L-03-CHLA Aquatic Life	Speights Run Lake Chlorophyll-a	5A		117.81		2010	2022
G12L-03-DO Aquatic Life	Speights Run Lake Oxygen, Dissolved	5A		117.81		2006	2018
G12L-04-DO Aquatic Life	Lake Kilby Oxygen, Dissolved	5A		200.03		2006	2018
G13E-07-PH Aquatic Life	Shingle Creek, Tributary to Nansemond R. pH	5A	0.039			2002	2014
G14L-01-DO Aquatic Life	Lake Burnt Mills Oxygen, Dissolved	5A		637.99		2006	2018
G14L-02-DO Aquatic Life	Western Branch Reservoir Oxygen, Dissolved	5A		1,205.37		2006	2018
G14L-02-TP Aquatic Life	Western Branch Reservoir Phosphorus (Total)	5A		1,205.37		2012	2024



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G14L-03-DO Aquatic Life	Lake Prince - Reservoir Oxygen, Dissolved	5A		708.85		2006	2018
G14R-01-BEN Aquatic Life	Carbell Swamp - Upper Benthic-Macroinvertebrate Bioassessments	5A			2.55	2004	2016
G14R-01-PH Aquatic Life	Carbell Swamp - Upper pH	5A			2.55	2002	2014
G14R-02-BAC Recreation	Carbell Swamp- Lower Escherichia coli	5A			2.86	2010	2022
G14R-02-DO Aquatic Life	Carbell Swamp- Lower Oxygen, Dissolved	5A			2.86	2008	2020
G15E-01-01-TCDD Fish Consumption	Elizabeth River Southern Branch and its tidal tributaries. CBP segment SBEMH. Dioxin (including 2,3,7,8-TCDD)	5A	3.137			2010	2022
G15E-02-04-EBEN Aquatic Life	Eastern Branch Elizabeth River, Broad Creek and Unsegmented estuaries in EBEMH Estuarine Bioassessments Estuarine Bioassessments	5A 5A	1.759 0.586			2004 2006	2016 2018
G15E-03-01-EBEN Aquatic Life	Elizabeth River Mainstem Estuarine Bioassessments Estuarine Bioassessments	5A 5A	4.528 3.440			2004 2010	2016 2022
G15E-04-02-EBEN Aquatic Life	Western Branch Elizabeth River and Unsegmented estuaries in WBEMH Estuarine Bioassessments Estuarine Bioassessments	5A 5A	0.562 2.166			2006 2010	2018 2022
G15E-06-01-BAC Recreation	Hampton River Enterococcus Enterococcus	5A 5A	0.006 0.545			2006 2010	2024 2022
G15E-06-02-BAC Recreation	James River-Anderson Park Beach Enterococcus	5A	0.010			2012	2024
G15E-06-03-BAC Recreation	Hoffler Creek Enterococcus	5A	0.057			2008	2020
H01R-01-HG Fish Consumption	James River Mercury in Fish Tissue	5A		15.55	2010	2022	
H03R-01-BEN Aquatic Life	Blackwater Creek Benthic-Macroinvertebrate Bioassessments	5A		10.30	2010	2022	
H03R-03-BEN Aquatic Life	Ivy Creek Benthic-Macroinvertebrate Bioassessments	5A		20.80	2010	2022	
H03R-04-PCB Fish Consumption	James River PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue	5A 5A 5A 5A		10.53 164.27 3.88 23.10	2004 2006 2008 2008	2016 2016 2016 2018	



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H03R-05-BEN Aquatic Life	Burton Creek Benthic-Macroinvertebrate Bioassessments	5A			3.45	2010	2022
H03R-06-BEN Aquatic Life	Judith Creek Benthic-Macroinvertebrate Bioassessments	5A			10.54	2010	2022
H03R-07-BEN Aquatic Life	Tomahawk Creek Benthic-Macroinvertebrate Bioassessments	5A			5.89	2010	2022
H05R-01-BAC Recreation	James River Escherichia coli	5A			16.21	2010	2022
H05R-03-BAC Recreation	Beaver Creek Escherichia coli	5A			8.50	2004	2016
H05R-05-BAC Recreation	Stonewall Creek Escherichia coli	5A			9.04	2008	2020
H05R-06-BAC Recreation	Little Beaver Creek Escherichia coli	5A			5.83	2010	2022
H05R-07-BAC Recreation	Walkers Ford Creek Escherichia coli	5A			4.24	2010	2022
H05R-08-BAC Recreation	Beck Creek Escherichia coli	5A			6.08	2012	2024
H05R-09-BAC Recreation	Partridge Creek Escherichia coli	5A			10.01	2012	2024
H06R-01-BAC Recreation	Wreck Island Creek Escherichia coli Escherichia coli	5A 5A			9.78 9.56	2008 2010	2014 2014
H06R-01-BEN Aquatic Life	Phelps Branch Benthic-Macroinvertebrate Bioassessments	5A			2.07	2010	2022
H06R-02-BAC Recreation	North Creek Escherichia coli	5A			5.80	2010	2022
H07R-01-BAC Recreation	Bent Creek Escherichia coli	5A			13.46	2008	2016
H08R-01-BAC Recreation	Davids Creek Escherichia coli	5A			5.19	2012	2024
H09R-01-PH Aquatic Life	Montebello Spring Branch pH	5A			0.10	2004	2016
H09R-02-BAC Recreation	Hat Creek Fecal Coliform Escherichia coli	5A 5A			9.58 9.58	2004 2010	2016 2016
H09R-02-BEN Aquatic Life	Hat Creek Benthic-Macroinvertebrate Bioassessments	5A			9.58	2012	2024



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H09R-03-BAC Recreation	Tye River Fecal Coliform Escherichia coli Escherichia coli Escherichia coli	5A 5A 5A 5A			7.61 8.32 7.61 8.33	2004 2006 2008 2008	2016 2018 2016 2018
H09R-04-BEN Aquatic Life	Tye River Benthic-Macroinvertebrate Bioassessments	5A			7.58	2012	2024
H10R-01-BAC Recreation	Piney River Escherichia coli Escherichia coli	5A 5A			6.94 6.36	2008 2010	2020 2020
H11L-01-DO Aquatic Life	Stonehouse Creek Reservoir Oxygen, Dissolved	5A		33.53		2006	2020
H11L-01-PH Aquatic Life	Stonehouse Creek Reservoir pH	5A		33.53		2006	2018
H11L-02-DO Aquatic Life	Thrashers Creek Reservoir Oxygen, Dissolved	5A		31.96		2006	2020
H11L-02-PH Aquatic Life	Thrashers Creek Reservoir pH	5A		31.96		2006	2018
H11R-01-BAC Recreation	Buffalo River Escherichia coli Escherichia coli	5A 5A			5.87 9.51	2006 2010	2016 2022
H11R-01-BEN Aquatic Life	Long Branch Benthic-Macroinvertebrate Bioassessments	5A			3.40	2008	2020
H11R-02-BAC Recreation	Mill Creek Escherichia coli	5A			3.92	2008	2020
H11R-02-BEN Aquatic Life	Buffalo River Benthic-Macroinvertebrate Bioassessments	5A			1.96	2008	2020
H12R-01-BAC Recreation	Rutledge Creek Escherichia coli	5A			3.16	2012	2014
H12R-01-BEN Aquatic Life	Rutledge Creek Benthic-Macroinvertebrate Bioassessments	5A			3.16	2010	2022
H12R-03-BAC Recreation	Buffalo River Escherichia coli Escherichia coli	5A 5A			2.32 5.46	2008 2008	2024 2024
H12R-04-BAC Recreation	Turner Creek Escherichia coli	5A			4.36	2008	2020
H13R-01-BAC Recreation	Rucker Run Fecal Coliform Escherichia coli	5A 5A			18.26 18.26	2004 2012	2016 2016



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H14R-01-HG Fish Consumption	James River Mercury in Fish Tissue	5A			21.44	2010	2022
H15R-01-BAC Recreation	South Fork Rockfish River Fecal Coliform Escherichia coli	5A 5A			11.59 11.59	2004 2008	2016 2016
H15R-02-BAC Recreation	North Fork Rockfish River Escherichia coli	5A			7.25	2006	2018
H15R-03-BAC Recreation	Taylor Creek Escherichia coli	5A			4.52	2012	2024
H15R-03-BEN Aquatic Life	Taylor Creek Benthic-Macroinvertebrate Bioassessments	5A			4.52	2008	2020
H16R-01-BAC Recreation	Rockfish River Escherichia coli	5A			5.98	2006	2018
H16R-02-BAC Recreation	Beaver Creek Escherichia coli	5A			7.30	2012	2024
H16R-03-BAC Recreation	Cove Creek Escherichia coli	5A			10.42	2012	2024
H16R-04-BAC Recreation	Rockfish River Escherichia coli	5A			17.39	2012	2024
H17L-01-DO Aquatic Life	Totier Creek Reservoir Oxygen, Dissolved	5A		37.23		2004	2024
H17R-02-BAC Recreation	James River Escherichia coli Escherichia coli	5A 5A			20.40 16.46	2008 2012	2024 2024
H17R-05-BEN Aquatic Life	Totier Creek Benthic-Macroinvertebrate Bioassessments	5A			0.73	2006	2018
H20R-01-BAC Recreation	Bear Garden Creek Escherichia coli	5A			9.18	2010	2014
H20R-02-BEN Aquatic Life	North Creek Benthic-Macroinvertebrate Bioassessments	5A			3.25	2008	2014
H21L-01-DO Aquatic Life	Troublesome Reservoir Oxygen, Dissolved	5A		52.68		2010	2022
H23L-02-PH Aquatic Life	Beaver Creek Reservoir pH	5A		95.54		2006	2018
H23R-01-BEN Aquatic Life	Broad Axe Run Benthic-Macroinvertebrate Bioassessments	5A			1.95	2004	2016
H23R-02-BEN Aquatic Life	Lickinghole Creek Benthic-Macroinvertebrate Bioassessments	5A			8.46	2010	2022



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H23R-03-BEN Aquatic Life	Mechums River Benthic-Macroinvertebrate Bioassessments	5A			14.06	2004	2016
H23R-04-BEN Aquatic Life	Slabtown Branch Benthic-Macroinvertebrate Bioassessments	5A			2.33	2010	2022
H23R-06-BEN Aquatic Life	Parrott Branch X-trib Benthic-Macroinvertebrate Bioassessments	5A			1.16	2010	2022
H23R-07-BEN Aquatic Life	Spring Creek Benthic-Macroinvertebrate Bioassessments	5A			3.33	2012	2024
H24R-01-DO Aquatic Life	North Fork Moormans River Oxygen, Dissolved	5A			10.96	2004	2016
H24R-02-BEN Aquatic Life	X-trib to Doyles River Benthic-Macroinvertebrate Bioassessments	5A			1.95	2012	2024
H25R-01-BAC Recreation	Buck Mountain Creek Escherichia coli	5A			9.92	2010	2022
H25R-02-BEN Aquatic Life	Piney Creek X-trib Benthic-Macroinvertebrate Bioassessments	5A			3.05	2012	2024
H26R-02-PH Aquatic Life	Ivy Creek pH	5A			5.22	2006	2018
H26R-03-BEN Aquatic Life	Ivy Creek Benthic-Macroinvertebrate Bioassessments	5A			6.19	2008	2020
		Benthic-Macroinvertebrate Bioassessments			5.22	2010	2020
H26R-04-BEN Aquatic Life	South Fork Rivanna River Benthic-Macroinvertebrate Bioassessments	5A			3.38	2010	2022
H26R-05-BEN Aquatic Life	Powell Creek Benthic-Macroinvertebrate Bioassessments	5A			2.26	2010	2022
H26R-06-BEN Aquatic Life	Naked Creek Benthic-Macroinvertebrate Bioassessments	5A			2.70	2010	2022
H26R-07-BEN Aquatic Life	South Fork Rivanna River X-trib Benthic-Macroinvertebrate Bioassessments	5A			1.86	2010	2022
H26R-08-BEN Aquatic Life	Fishing Creek Benthic-Macroinvertebrate Bioassessments	5A			4.96	2012	2024
H27R-01-BEN Aquatic Life	Flat Branch X-trib Benthic-Macroinvertebrate Bioassessments	5A			2.01	2010	2022
H27R-02-BAC Recreation	Swift Run Escherichia coli	5A			1.74	2010	2022
H27R-02-BEN Aquatic Life	Swift Run Benthic-Macroinvertebrate Bioassessments	5A			1.74	2012	2024



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H27R-03-BEN	Preddy Creek North Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			11.91	2010	2022
H27R-05-BEN	Marsh Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.61	2010	2022
H27R-06-BEN	Blue Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.50	2012	2024
H28L-01-PH	Ragged Mountain Reservoir						
Aquatic Life	pH	5A		70.74		2008	2020
H28R-02-BEN	Moores Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.37	2008	2020
H28R-04-BEN	Moores Creek X-trib						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.57	2006	2018
H28R-05-BEN	Meadow Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.00	2006	2018
H28R-07-BAC	Schenks Branch						
Recreation	Escherichia coli	5A			1.13	2010	2022
H28R-07-BEN	Schenks Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.13	2008	2020
H28R-08-BEN	Biscuit Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.27	2010	2022
H28R-09-BEN	Morey Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.52	2010	2022
H28R-10-BEN	Town Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.20	2010	2022
H28R-11-BEN	Meadow Creek X-trib						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.88	2010	2022
H28R-12-BEN	X-trib to Moores Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.17	2012	2024
H29R-03-BAC	Buck Island Creek						
Recreation	Escherichia coli	5A			8.98	2008	2020
H29R-03-BEN	Buck Island Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.58	2010	2022
H29R-04-BEN	Carroll Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.12	2010	2022
H30R-01-BEN	Mechunk Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			11.98	2012	2024



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H30R-02-BEN Aquatic Life	East Prong Beaverdam Creek Benthic-Macroinvertebrate Bioassessments	5A			3.57	2012	2024
H30R-03-BEN Aquatic Life	Jacks Branch Benthic-Macroinvertebrate Bioassessments	5A			6.99	2012	2024
H31R-02-BEN Aquatic Life	Carys Creek Benthic-Macroinvertebrate Bioassessments	5A			1.69	2010	2022
H31R-03-BEN Aquatic Life	X-trib to Boston Creek Benthic-Macroinvertebrate Bioassessments	5A			1.74	2010	2022
H31R-04-BEN Aquatic Life	X-trib to Rivanna River Benthic-Macroinvertebrate Bioassessments	5A			0.98	2010	2022
H32L-01-DO Aquatic Life	Fluvanna Ruritan Lake Oxygen, Dissolved	5A		51.13		2012	2024
H32R-02-BAC Recreation	Middle Fork Cunningham Creek Escherichia coli Escherichia coli	5A 5A			3.08 3.73	2006 2008	2018 2018
H32R-02-BEN Aquatic Life	Middle Fork Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5A			3.08	2010	2022
H32R-03-BAC Recreation	Middle Fork Cunningham Creek X-trib Escherichia coli	5A			3.60	2008	2020
H32R-04-BEN Aquatic Life	X-trib to North Fork Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5A			0.60	2010	2022
H32R-05-BEN Aquatic Life	Cunningham Creek North Fork Benthic-Macroinvertebrate Bioassessments	5A			3.89	2012	2024
H32R-06-BEN Aquatic Life	Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5A			5.46	2012	2024
H33L-01-DO Aquatic Life	Powhatan Lake Oxygen, Dissolved	5A		62.83		2012	2024
H33R-02-DO Aquatic Life	Deep Creek Oxygen, Dissolved	5C			0.37	2008	2020
H34R-02-BEN Aquatic Life	Little Byrd Creek Benthic-Macroinvertebrate Bioassessments	5A			8.02	2008	2020
H34R-06-BEN Aquatic Life	Ransome Creek Benthic-Macroinvertebrate Bioassessments	5A			3.36	2008	2020
H36R-01-BEN Aquatic Life	Willis River Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			4.80 15.08	2008 2010	2020 2020
H36R-02-BEN Aquatic Life	Randolph Creek Benthic-Macroinvertebrate Bioassessments	5A			11.65	2008	2020



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H37R-03-DO Aquatic Life	Big Lickinghole Creek Oxygen, Dissolved	5C			3.34	2008	2020
H38R-01-PH Aquatic Life	Little Creek pH	5C			0.66	2012	2024
H38R-07-DO Aquatic Life	Branch Creek Oxygen, Dissolved	5C			5.49	2008	2020
H39R-01-PH Aquatic Life	Broad Branch pH	5A			2.59	2006	2018
H39R-03-PH Aquatic Life	UT to Tuckahoe Creek pH	5C			1.81	2006	2018
H39R-05-BEN Aquatic Life	Powhite Creek Benthic-Macroinvertebrate Bioassessments	5A			8.05	2008	2020
H39R-06-DO Aquatic Life	Reedy Creek Oxygen, Dissolved	5A			2.37	2008	2020
H39R-06-PH Aquatic Life	Reedy Creek pH	5A			0.60	2010	2022
H39R-07-DO Aquatic Life	James River, UT (XZE) Oxygen, Dissolved	5A			1.30	2010	2022
H39R-08-DO Aquatic Life	Salles Creek, UT Oxygen, Dissolved	5C			0.10	2010	2022
H39R-08-PH Aquatic Life	Salles Creek, UT pH	5C			0.10	2010	2022
H39R-09-DO Aquatic Life	James River Oxygen, Dissolved	5A			2.91	2012	2024
H39R-11-HG Fish Consumption	James River Mercury in Fish Tissue	5A			4.36	2010	2022
H39R-13-BEN Aquatic Life	Stony Run Benthic-Macroinvertebrate Bioassessments	5A			1.01	2008	2020
H39R-14-BEN Aquatic Life	Jones Creek Benthic-Macroinvertebrate Bioassessments	5A			8.04	2008	2020
H39R-15-BEN Aquatic Life	Stony Run, UT (XYT) Benthic-Macroinvertebrate Bioassessments	5A			1.18	2008	2020
H39R-16-HG Fish Consumption	James River Mercury in Fish Tissue	5A			2.91	2010	2022
H39R-17-CDANE Fish Consumption	James River Chlordane	5A			2.91	2010	2022



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H39R-17-DDE Fish Consumption	James River DDE	5A			2.91	2010	2022
H39R-17-DDT Fish Consumption	James River DDT	5A			2.91	2010	2022
H39R-19-DO Aquatic Life	Deep Run Oxygen, Dissolved	5C			1.49	2004	2024
I01R-01-TEMP Aquatic Life	Jackson River Temperature, water	5C			13.13	2004	2016
		5C			14.90	2010	2016
I01R-02-TEMP Aquatic Life	Bolar Run Temperature, water	5C			1.99	2006	2018
I01R-03-BAC Recreation	Jackson River Escherichia coli	5A			26.42	2008	2020
I02R-01-TEMP Aquatic Life	Back Creek Temperature, water	5A			25.64	2010	2022
I02R-02-BAC Recreation	Back Creek Escherichia coli	5A			13.72	2010	2022
I02R-03-TEMP Aquatic Life	Little Back Creek Temperature, water	5A			13.62	2012	2024
I04R-01-BAC Recreation	Falling Spring Escherichia coli	5A			4.77	2008	2020
I09R-01-BAC Recreation	Smith Creek Fecal Coliform	5A			1.17	2004	2016
I09R-01-DO Aquatic Life	Jackson River Oxygen, Dissolved	5A			11.19	1996	2010
I09R-01-PCB Fish Consumption	Jackson River PCB in Fish Tissue	5A			12.43	2008	2020
I09R-02-BAC Recreation	Jackson River Escherichia coli	5A			3.36	2008	2020
	Escherichia coli	5A			9.07	2010	2020
I09R-02-TEMP Aquatic Life	Wilson Creek Temperature, water	5C			6.52	2004	2016
I09R-03-BAC Recreation	Jackson River Escherichia coli	5A			5.19	2012	2024
I10R-01-BAC Recreation	Potts Creek Escherichia coli	5A			9.51	2006	2018
I10R-01-PH Aquatic Life	Potts Creek pH	5C			9.51	2004	2016



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
I10R-01-TEMP	Potts Creek				5.54	2006	2018
Aquatic Life	Temperature, water	5C					
I13R-01-BAC	Bullpasture River				11.86	2006	2018
Recreation	Escherichia coli	5A					
I13R-02-TEMP	Bullpasture River				24.17	2012	2024
Aquatic Life	Temperature, water	5A					
I14R-04-PH	Laurel Run				2.04	2006	2018
Aquatic Life	pH	5A					
I16R-01-PH	Porters Mill Creek				4.98	2006	2018
Aquatic Life	pH	5A					
I19R-01-BAC	Craig Creek				7.79	2004	2016
Recreation	Escherichia coli	5A					
I19R-01-BEN	Craig Creek, UT (XZQ)				1.06	2008	2020
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
I20R-01-TEMP	Meadow Creek				2.53	2006	2018
Aquatic Life	Temperature, water	5C					
I21R-01-BAC	Johns Creek				2.19	2004	2016
Recreation	Fecal Coliform	5A					
I22R-01-BAC	Barbours Creek				7.08	2004	2016
Recreation	Fecal Coliform	5A					
I22R-01-PH	Mill Creek				3.95	2012	2024
Aquatic Life	pH	5A					
I22R-02-BAC	Craig Creek				11.31	2012	2024
Recreation	Escherichia coli	5A					
I22R-02-BEN	Mill Creek				5.99	2004	2016
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
I22R-04-BAC	Little Patterson Creek				3.64	2012	2016
Recreation	Escherichia coli	5A					
I24R-01-BAC	Lapsley Run				8.40	2008	2020
Recreation	Escherichia coli	5A					
I25R-01-BAC	Catawba Creek				24.21	2010	2014
Recreation	Escherichia coli	5A					
I25R-01-BEN	Catawba Creek				3.16	2008	2020
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
I26R-01-BEN	Mill Creek, UT (XUL)				5.31	2010	2022
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
I26R-03-TEMP	Ellis Run				1.67	2006	2020
Aquatic Life	Temperature, water	5C					
I28R-01-BAC	Cedar Creek				11.49	2002	2014
Recreation	Fecal Coliform	5A			11.49	2010	2014
	Escherichia coli	5A					
I30R-01-BAC	Calfpasture River				2.80	2006	2018
Recreation	Escherichia coli	5A					
I30R-02-BAC	Mill Creek				1.99	2006	2018
Recreation	Fecal Coliform	5A			1.99	2008	2018
	Escherichia coli	5A					
I30R-03-PH	Piney Branch				2.24	2006	2018
Aquatic Life	pH	5A					
I32R-03-BAC	Little Calfpasture River				10.31	2004	2016
Recreation	Fecal Coliform	5A			10.31	2010	2016
	Escherichia coli	5A					
I33R-01-BAC	Cedar Grove Branch				4.66	2004	2016
Recreation	Fecal Coliform	5A			4.66	2008	2016
	Escherichia coli	5A					
I33R-03-BAC	Kerrs Creek				11.57	2012	2024
Recreation	Escherichia coli	5A					
I35R-02-BAC	Mill Creek				8.59	2006	2018
Recreation	Fecal Coliform	5A			8.59	2008	2018
	Escherichia coli	5A					
I35R-03-BAC	Woods Creek				5.71	2012	2024
Recreation	Escherichia coli	5A					
I35R-03-BEN	Woods Creek				5.71	2008	2020
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
I36R-02-BEN	Moores Creek				8.39	2006	2018
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
I36R-03-PH	Saint Marys River				1.78	2006	2018
Aquatic Life	pH	5A					
I36R-03-TEMP	Saint Marys River				1.78	2010	2022
Aquatic Life	Temperature, water	5A					
I36R-04-TEMP	Irish Creek				8.10	2010	2022
Aquatic Life	Temperature, water	5A					
I36R-05-BEN	Marl Creek				6.87	2012	2024
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
I36R-06-BAC Recreation	South River Escherichia coli	5A			7.65	2012	2024
I37R-02-PCB Fish Consumption	Maury River PCB in Fish Tissue PCB in Fish Tissue	5A 5A			4.58 12.84	2004 2006	2016 2016
I37R-03-BAC Recreation	Maury River Escherichia coli	5A			12.84	2008	2018
I38L-01-PH Aquatic Life	Lexington Reservoir pH	5A		22.76		2010	2022
I38R-01-BAC Recreation	Buffalo Creek Fecal Coliform Fecal Coliform Escherichia coli Escherichia coli	5A 5A 5A 5A			3.93 11.58 3.93 11.58	2004 2006 2008 2010	2016 2016 2016 2016
I38R-02-BAC Recreation	Colliers Creek Fecal Coliform Escherichia coli	5A 5A			13.77 13.77	2006 2010	2018 2018
I38R-02-BEN Aquatic Life	Colliers Creek Benthic-Macroinvertebrate Bioassessments	5A			13.77	2010	2022
I38R-03-BAC Recreation	South Fork Buffalo Creek Escherichia coli	5A			13.24	2010	2022
I38R-04-BAC Recreation	North Fork Buffalo Creek Escherichia coli	5A			7.28	2012	2024
J01R-09-BEN Aquatic Life	Crane Creek Benthic-Macroinvertebrate Bioassessments	5A			4.94	2010	2022
J03L-04-DO Aquatic Life	Goodwin Lake Oxygen, Dissolved	5A		12.42		2006	2018
J04R-01-BEN Aquatic Life	Bush River Benthic-Macroinvertebrate Bioassessments	5A			10.82	2010	2022
J04R-02-BEN Aquatic Life	Mountain Creek Benthic-Macroinvertebrate Bioassessments	5A			8.72	2010	2022
J05R-01-BEN Aquatic Life	Briery Creek Benthic-Macroinvertebrate Bioassessments	5A			10.10	2008	2020
J10R-01-BEN Aquatic Life	UT to Appomattox River Benthic-Macroinvertebrate Bioassessments	5A			1.49	2008	2020
J10R-02-DO Aquatic Life	Goodes Creek Oxygen, Dissolved	5C			2.72	2010	2022



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
J10R-03-DO	Smacks Creek						
Aquatic Life	Oxygen, Dissolved	5C			8.77	2012	2024
J11R-03-DO	Bland Creek						
Aquatic Life	Oxygen, Dissolved	5C			6.35	2010	2022
J11R-03-PH	Bland Creek						
Aquatic Life	pH	5C			6.35	2010	2022
J11R-04-DO	Cellar Creek						
Aquatic Life	Oxygen, Dissolved	5C			2.71	2012	2024
J11R-04-PH	Cellar Creek						
Aquatic Life	pH	5C			2.71	2010	2022
J12R-01-BEN	Winticomack Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.96	2010	2022
J12R-06-PH	Horsepen Branch						
Aquatic Life	pH	5C			4.37	2006	2018
J14R-01-PH	Cattle Creek						
Aquatic Life	pH	5C			2.16	2010	2022
J14R-02-PH	Stoney Creek						
Aquatic Life	pH	5C			2.22	2010	2022
J15E-01-EBTOX	Appomattox River						
Aquatic Life	Sediment Bioassays for Estuarine and Marine Water	5A	1.474			2012	2022
J15R-01-BEN	Appomattox River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.13	2012	2024
J15R-02-BEN	Oldtown Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.10	2010	2022
J15R-05-BEN	Rohoic Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.78	2012	2024
J15R-08-PH	Oldtown Creek						
Aquatic Life	pH	5C			6.61	2010	2022
J16R-02-DO	Blackman Creek						
Aquatic Life	Oxygen, Dissolved	5C			4.45	2004	2016
J16R-02-PH	Blackman Creek						
Aquatic Life	pH	5C			4.45	2004	2016
J17L-01-DO	Swift Creek Lake						
Aquatic Life	Oxygen, Dissolved	5A		102.42		2006	2018
J17R-01-BEN	Swift Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.10	2010	2022



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James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
J17R-01-DO	Swift Creek						
Aquatic Life	Oxygen, Dissolved	5A			7.10	2002	2014
J17R-03-PH	Franks Branch						
Aquatic Life	pH	5C			10.02	2006	2018
J17R-05-PH	Church Branch						
Aquatic Life	pH	5C			2.56	2010	2022
J17R-06-BEN	Nuttree Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.31	2012	2024
J17R-06-DO	Nuttree Branch						
Aquatic Life	Oxygen, Dissolved	5C			5.31	2010	2022
J17R-06-PH	Nuttree Branch						
Aquatic Life	pH	5C			5.31	2010	2022
J17R-07-PH	Second Branch						
Aquatic Life	pH	5C			5.84	2010	2022
J17R-08-DO	Swift Creek						
Aquatic Life	Oxygen, Dissolved	5A			3.66	2010	2022
J17R-09-BEN	Swift Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.79	2010	2022
J17R-10-PH	Timsbury Creek						
Aquatic Life	pH	5C			6.65	2010	2022
J17R-11-PH	Long Swamp						
Aquatic Life	pH	5C			3.65	2010	2022

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



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Category 5 - Waters needing Total Maximum Daily Load Study

Rappahannock River Basin							
Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	Initial List Date	TMDL Dev. Date
Impaired Use		Cause					
E01R-01-BEN	Thumb Run, East Branch						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			5.88	2012 2024
E02R-01-BEN	Great Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			4.12	2010 2022
		Benthic-Macroinvertebrate Bioassessments	5A			2.75	2012 2024
E03R-01-TEMP	Hughes River						
Aquatic Life		Temperature, water	5A			3.11	2008 2020
E06R-02-BEN	Battle Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.15	2012 2024
E08R-01-BEN	Marsh Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			5.87	2012 2024
E08R-02-DO	Browns Run						
Aquatic Life		Oxygen, Dissolved	5A			2.38	2008 2020
E09R-01-BEN	Mountain Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			19.33	2008 2020
E09R-01-PCB	Mountain Run						
Fish Consumption		PCB in Fish Tissue	5A			19.33	2006 2018
E09R-02-BEN	Jonas Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.71	2012 2024
E10R-01-BEN	Sumerduck Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.78	2012 2024
E10R-02-BAC	Sumerduck Run						
Recreation		Escherichia coli	5A			3.55	2008 2020
E11R-01-BEN	Conway River						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.90	2010 2022
E13R-01-BEN	Beautiful Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.35	2012 2024
E14R-01-TEMP	Robinson River						
Aquatic Life		Temperature, water	5A			2.92	2004 2016
E14R-02-TEMP	Rose River						
Aquatic Life		Temperature, water	5A			2.46	2006 2018
E15R-01-BEN	Great Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			8.41	2012 2024
E17R-01-BEN	Brook Run						
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.45	2012 2024
E18R-01-HG	Rapidan River						
Fish Consumption		Mercury in Fish Tissue	5A			10.26	2010 2022



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Rappahannock River Basin							
Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
E19L-01-HG Fish Consumption	Motts Run Reservoir Mercury in Fish Tissue	5A		137.17		2008	2020
E20E-03-PCB Fish Consumption	Rappahannock River PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue	5A 5A 5A 5A	0.136 3.758 124.928 0.044		8.59	2002 2004 2006 2008	2018 2016 2018 2018
E20R-01-BEN Aquatic Life	Falls Run Benthic-Macroinvertebrate Bioassessments	5A			6.98	2012	2024
E20R-02-BEN Aquatic Life	Hazel Run Benthic-Macroinvertebrate Bioassessments	5A			4.38	2012	2024
E20R-03-PH Aquatic Life	Massaponax Creek pH	5A			4.93	2006	2018
E20R-04-PH Aquatic Life	Deep Run pH	5A			1.51	2012	2024
E21R-01-BEN Aquatic Life	Muddy Creek Benthic-Macroinvertebrate Bioassessments	5A			3.39	2010	2022
E21R-02-BEN Aquatic Life	Ware Creek Benthic-Macroinvertebrate Bioassessments	5A			2.94	2008	2020
E21R-02-PH Aquatic Life	Ware Creek pH pH	5C 5C			2.94 4.16	2004 2008	2016 2020
E21R-03-BAC Recreation	Gingoteague Creek Escherichia coli	5A			1.38	2008	2020
E21R-03-BEN Aquatic Life	Gingoteague Creek Benthic-Macroinvertebrate Bioassessments	5A			1.38	2012	2024
E21R-03-PH Aquatic Life	Gingoteague Creek pH	5C			1.38	2008	2020
E21R-04-BEN Aquatic Life	Mill Creek Benthic-Macroinvertebrate Bioassessments	5A			3.38	2008	2020
E21R-05-PH Aquatic Life	Mount Creek pH	5C			3.98	2008	2020
E21R-07-BAC Recreation	Mill Creek Escherichia coli	5A			4.17	2008	2020
E21R-07-PH Aquatic Life	Mill Creek pH	5C			4.17	2008	2020
E21R-08-DO Aquatic Life	Goldenvale Creek Oxygen, Dissolved	5C			4.89	2008	2020



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Rappahannock River Basin							
Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	Initial List Date	TMDL Dev. Date
Impaired Use		Cause					
E21R-08-PH	Goldenvale Creek						
Aquatic Life	pH		5C			4.89	2008 2020
E21R-09-PH	Hugh Run						
Aquatic Life	pH		5C			2.29	2010 2022
E21R-10-BAC	Jetts Creek						
Recreation	Escherichia coli		5A			1.84	2010 2022
E21R-11-BAC	Portobago Creek						
Recreation	Escherichia coli		5A			6.66	2010 2022
E21R-11-DO	Portobago Creek						
Aquatic Life	Oxygen, Dissolved		5C			6.66	2010 2022
E22E-01-EBEN	Rappahannock River						
Aquatic Life	Estuarine Bioassessments		5A	6.281			2010 2022
E22E-02-EBEN	Rappahannock River						
Aquatic Life	Estuarine Bioassessments		5A	110.154			2006 2018
	Estuarine Bioassessments		5A	0.015			2008 2016
	Estuarine Bioassessments		5A	0.029			2008 2018
E22E-08-CHLR	Rappahannock River						
Aquatic Life	Chloride		5C	5.121			2004 2016
Wildlife	Chloride		5C	5.121			2004 2016
E22R-02-DO	Farmers Hall Creek						
Aquatic Life	Oxygen, Dissolved		5C			4.00	2012 2024
E22R-02-PH	Farmers Hall Creek						
Aquatic Life	pH		5C			4.00	2006 2018
E22R-03-MIREX	Occupacia Creek and Tributaries						
Aquatic Life	Mirex		5A			49.05	2010 2022
Wildlife	Mirex		5A			49.05	2010 2022
E22R-04-PH	Elmwood Creek						
Aquatic Life	pH		5C			5.03	2006 2018
E22R-05-BAC	Baylor's Creek						
Recreation	Escherichia coli		5A			5.10	2008 2020
E22R-05-DO	Baylor's Creek						
Aquatic Life	Oxygen, Dissolved		5C			5.10	2008 2020
E22R-05-PH	Baylor's Creek						
Aquatic Life	pH		5C			5.10	2008 2020
E22R-06-BAC	Peedee Creek						
Recreation	Escherichia coli		5A			3.31	2008 2020
E22R-06-DO	Peedee Creek						
Aquatic Life	Oxygen, Dissolved		5C			3.31	2010 2022



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Rappahannock River Basin						
Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Impaired Use		Cause				
E22R-06-PH	Peedee Creek					
Aquatic Life	pH		5C			3.31
E22R-07-DO	Occupacia Creek, UT - XGI	Oxygen, Dissolved	5C			1.96
Aquatic Life						2010
E22R-07-PH	Occupacia Creek, UT - XGI					2020
Aquatic Life	pH		5C			1.96
E23L-01-HG	Chandlers Millpond					
Fish Consumption	Mercury in Fish Tissue		5A		51.87	2008
E23R-12-DO	Mussell Swamp	Oxygen, Dissolved	5C			5.16
Aquatic Life						2006
E23R-16-BEN	Church Swamp	Benthic-Macroinvertebrate Bioassessments	5A			3.24
Aquatic Life						2020
E24E-02-EBTOX	Totuskey Creek					
Aquatic Life	Sediment Bioassays for Estuarine and Marine Water		5A	1.068		2006
E24E-05-PH	Little Totuskey Creek					
Aquatic Life	pH		5C	0.055		2012
E24R-01-DO	Bookers Mill Stream	Oxygen, Dissolved	5C			6.53
Aquatic Life						2012
E24R-03-PH	Muddy Gut					2024
Aquatic Life	pH		5C			2.63
E24R-05-PH	Branham Mill Swamp					
Aquatic Life	pH		5C			3.66
E24R-06-DO	Richardson Creek and Tributaries	Oxygen, Dissolved	5C			10.71
Aquatic Life						2012
E24R-06-PH	Richardson Creek and Tributaries					
Aquatic Life	pH		5C			10.71
E24R-08-PH	XHL - Bookers Mill Stream, UT					
Aquatic Life	pH		5C			2.01
E24R-09-DO	Marshy Swamp	Oxygen, Dissolved	5C			9.63
Aquatic Life						2012
E25E-10-SF2	Deep Creek					
Shellfishing	Fecal Coliform		5B	0.140		2002
E25E-11-SF2	Lancaster Creek					
Shellfishing	Fecal Coliform		5B	0.120		2002
E25E-12-SF	Morattico Creek					
Shellfishing	Fecal Coliform		5B	0.138		2002
						2014



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Rappahannock River Basin							
Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
E25E-22-SF Shellfishing	Robinson Creek Fecal Coliform	5B	0.060			2006	2018
E25E-25-SF Shellfishing	Mulberry Creek Fecal Coliform	5B	0.008			2008	2020
E25E-27-SF Shellfishing	Parrotts Creek Fecal Coliform	5B	0.011			2008	2020
E25E-28-SF Shellfishing	Paynes Creek Fecal Coliform	5B	0.049			2008	2020
E25E-29-SF Shellfishing	Greenvale Creek Fecal Coliform	5B	0.013			2012	2024
E25R-01-PH Aquatic Life	Mud Creek pH	5C	0.205			2004	2016
E25R-02-DO Aquatic Life	Lagrange Creek Oxygen, Dissolved	5C			2.48	2010	2022
E25R-04-DO Aquatic Life	South Branch Lagrange Creek Oxygen, Dissolved	5A			0.40	2012	2024
E25R-17-DO Aquatic Life	Masons Mill Swamp Oxygen, Dissolved	5C			3.36	2006	2018
E26E-18-SF Shellfishing	Myer Creek Fecal Coliform	5B	0.003			2012	2024
E26E-22-SF Shellfishing	Windmill Point Creek Fecal Coliform	5B	0.081			2012	2024
E26E-24-BAC Recreation	Whiting Creek Enterococcus	5A	0.193			2012	2024
E26E-31-SF Shellfishing	Myer Creek, UT Fecal Coliform	5B	0.042			2002	2014
E26E-33-SF Shellfishing	Whitehouse Creek Fecal Coliform	5B	0.050			2002	2014
E26E-35-SF Shellfishing	Davis Creek Fecal Coliform	5B	0.043			2002	2014
E26E-36-SF Shellfishing	Myer Creek Fecal Coliform	5B	0.017			2004	2016
E26E-41-SF Shellfishing	Woods Creek Fecal Coliform	5B	0.038			2008	2020
E26E-42-SF Shellfishing	Hunting Creek Fecal Coliform	5B	0.019			2008	2020



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Rappahannock River Basin							
Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
E26E-46-SF Shellfishing	Eastern Branch Carter Creek Fecal Coliform	5B	0.031			2002	2014
E26E-49-SF Shellfishing	Moran Creek Fecal Coliform	5B	0.049			2008	2020
E26E-50-SF Shellfishing	Ewells Prong Fecal Coliform	5B	0.012			2008	2020
E26E-51-SF Shellfishing	Eastern Branch Corrotoman River, UT Fecal Coliform	5B	0.011			2008	2020
E26E-53-SF Shellfishing	John Creek Fecal Coliform	5B	0.036			2008	2020
E26E-54-SF Shellfishing	Lowrey Creek Fecal Coliform	5B	0.028			2008	2020
E26R-02-DO Aquatic Life	UT to Western Branch Corrotoman River Oxygen, Dissolved	5C			3.27	2008	2020
E26R-02-PH Aquatic Life	UT to Western Branch Corrotoman River pH	5C			3.27	2006	2018
E26R-03-DO Aquatic Life	Norris Prong Oxygen, Dissolved	5C			2.41	2008	2020
E26R-04-DO Aquatic Life	Browns Creek Oxygen, Dissolved	5C			2.60	2008	2020

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
L01R-01-BEN	Smith Creek, UT (XMV)						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.61	2010	2022
L01R-01-TEMP	Roanoke River, South Fork						
Aquatic Life	Temperature, water	5C			6.24	2004	2016
	Temperature, water	5C			6.37	2010	2016
	Temperature, water	5C			4.56	2012	2016
L01R-02-TEMP	Bottom Creek						
Aquatic Life	Temperature, water	5C			4.41	2008	2020
L02R-01-PH	Bradshaw Creek						
Aquatic Life	pH	5C			8.72	2010	2022
L03R-01-TEMP	Roanoke River						
Aquatic Life	Temperature, water	5C			13.08	2002	2014
L04R-01-BEN	Roanoke River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.14	2008	2020
L04R-01-HG	Roanoke River						
Fish Consumption	Mercury in Fish Tissue	5A			10.20	2010	2022
L04R-02-BEN	Mud Lick Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.27	2008	2020
L04R-05-BEN	Mason Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.56	2008	2020
L04R-06-BEN	Barnhardt Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.04	2012	2024
L04R-07-BEN	Murray Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.22	2012	2024
L05R-01-BEN	Tinker Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.33	2010	2022
L05R-01-TEMP	Tinker Creek						
Aquatic Life	Temperature, water	5C			11.87	2002	2014
L07R-01-BEN	Beaverdam Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.03	2010	2022
L07R-02-BEN	Merriman Run, UT (XUO)						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.88	2010	2022
L08R-01-TEMP	Green Creek						
Aquatic Life	Temperature, water	5C			3.90	2012	2024
L08R-02-TEMP	Blackwater River, South Fork						
Aquatic Life	Temperature, water	5C			6.04	2012	2024
L08R-05-BEN	Little Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.60	2002	2014



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Roanoke and Yadkin River Basins

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause						
L08R-06-BEN	Teels Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.59	2002	2014
L08R-07-BEN	Buck Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.61	2008	2020
L09R-01-BEN	Maggodee Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.36	2002	2014
L09R-01-TEMP	Maggodee Creek						
Aquatic Life	Temperature, water	5C			4.40	2008	2020
L10L-01-HG	Blackwater River						
Fish Consumption	Mercury in Fish Tissue	5A		525.03	8.22	2010	2022
L10L-05-BAC	Smith Mountain Lake - Crazy Horse Camp Ground						
Recreation	Escherichia coli	5A		30.27		2004	2016
L10R-01-BEN	Blackwater River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			14.26	2008	2020
L11R-01-BEN	North Fork Gills Creek, UT (XML)						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.39	2008	2020
L12L-01-HG	Smith Mountain Lake						
Fish Consumption	Mercury in Fish Tissue	5A		6,485.70		2010	2022
L12L-01-PCB	Roanoke River, Blackwater River, Smith Mountain Lake, Tinker Creek and Peters Creek.						
Fish Consumption	PCB in Fish Tissue	5A		2,715.55	6.45	2002	2014
	PCB in Fish Tissue	5A		17,104.54	11.29	2006	2014
	PCB in Water Column	5A			3.14	2010	2014
Public Water Supply	PCB in Water Column	5A			3.14	2010	2014
Wildlife	PCB in Water Column	5A			3.14	2010	2014
L14R-01-BEN	Pigg River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.32	2012	2024
L17R-01-BEN	Poplar Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.51	2008	2020
L18R-01-BEN	Fryingpan Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.55	2006	2018
L19R-01-HG	Roanoke (Staunton) River, Cub Creek, Kerr Reservoir						
Fish Consumption	Mercury in Fish Tissue	5A		31,646.71	102.39	2008	2020
L19R-02-BEN	Lynch Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.82	2010	2022
L19R-03-BEN	Reed Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.77	2010	2022
L19R-04-BEN	Roanoke (Staunton) River, Unnamed tributary						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.92	2010	2022



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
L21R-01-BEN	Wolf Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.82	2012	2024
L26R-01-BEN	Little Otter River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.71	2002	2014
	Benthic-Macroinvertebrate Bioassessments	5A			7.29	2008	2014
	Benthic-Macroinvertebrate Bioassessments	5A			8.62	2010	2022
L26R-01-HG	Little Otter River						
Fish Consumption	Mercury in Fish Tissue	5A			14.33	2010	2022
L26R-02-BEN	Johns Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.13	2002	2014
L26R-03-BEN	Wells Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.78	2008	2020
L27R-01-BEN	Buffalo Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.09	2008	2020
L29R-01-BEN	Flat Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.88	2010	2022
L31R-01-BEN	East Little Seneca Creek, Unnamed Tributary						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.45	2008	2020
L34R-02-PH	Little Falling River						
Aquatic Life	pH	5A			9.31	2008	2020
L34R-04-PH	Entry Creek						
Aquatic Life	pH	5A			4.55	2008	2020
L34R-07-BEN	Entry Creek, Unnamed Tributary						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.66	2012	2024
L35R-01-BEN	Mollys Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.99	2010	2022
L38L-01-HG	Conner Lake						
Fish Consumption	Mercury in Fish Tissue	5A		98.05		2010	2022
L39R-03-BEN	Horsepen Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.27	2008	2020
L39R-05-HG	Roanoke Creek						
Fish Consumption	Mercury in Fish Tissue	5A			10.53	2010	2022
L39R-07-BEN	Little Roanoke Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.60	2010	2022
L39R-08-BEN	Bush Ford Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.97	2010	2022
L42L-01-HG	Talbott Reservoir						
Fish Consumption	Mercury in Fish Tissue	5A		140.51		2010	2022



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
L42R-01-TEMP Aquatic Life	Dan River Temperature, water Temperature, water	5C 5C			9.49 5.61	2002 2008	2014 2014
L43R-01-BEN Aquatic Life	North Fork of the South Mayo River Benthic-Macroinvertebrate Bioassessments	5A			2.12	2008	2020
L43R-01-TEMP Aquatic Life	South Mayo River Temperature, water	5C			4.46	2010	2022
L45R-01-HG Fish Consumption	South Mayo River Mercury in Fish Tissue	5A			10.85	2010	2022
L47R-01-BEN Aquatic Life	Horse Pasture Creek Benthic-Macroinvertebrate Bioassessments	5A			7.23	2010	2022
L50R-01-TEMP Aquatic Life	Smith River Temperature, water	5C			9.18	2002	2014
L51L-01-HG Fish Consumption	Philpott Reservoir Mercury in Fish Tissue	5A		2,813.42		2010	2022
L51R-01-HG Fish Consumption	Goblintown Creek Mercury in Fish Tissue	5A			6.71	2010	2022
L51R-01-TEMP Aquatic Life	Rennet Bag Creek Temperature, water	5C			11.15	2002	2014
L51R-02-TEMP Aquatic Life	Shooting Creek Temperature, water	5C			6.94	2008	2020
L53R-03-BEN Aquatic Life	Beaver Creek Benthic-Macroinvertebrate Bioassessments	5A			6.92	2008	2020
L53R-04-BEN Aquatic Life	Jones Creek, UT (XMP) Benthic-Macroinvertebrate Bioassessments	5A			2.04	2006	2018
L54R-02-BEN Aquatic Life	Machine Branch Benthic-Macroinvertebrate Bioassessments	5A			1.01	2010	2022
L54R-03-BEN Aquatic Life	Mulberry Creek Benthic-Macroinvertebrate Bioassessments	5A			2.44	2010	2022
L60R-01-HG Fish Consumption	Dan River, Banister River and Hyco River Mercury in Fish Tissue Mercury in Fish Tissue	5A 5A		1,655.60	56.40 5.26	2008 2010	2020 2020
L60R-01-PCB Fish Consumption	Dan River, Banister River and Hyco River PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue	5A 5A 5A 5A 5A 5A		1,655.60	33.73 12.25 2.39 8.03 4.19 1.07	2002 2004 2004 2006 2010 2010	2014 2014 2016 2014 2010 2014



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Roanoke and Yadkin River Basins

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
	Impaired Use	Cause					
L60R-02-BEN	Pumpkin Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.94	2012	2024
L60R-03-BEN	Cane Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			12.02	2012	2024
L60R-04-BEN	Rutledge Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.62	2012	2024
L61R-01-HG	Fall Creek						
Fish Consumption	Mercury in Fish Tissue	5A			11.79	2010	2022
L62R-07-BEN	Wolfe Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.82	2008	2020
L64R-01-DO	Lawsons Creek						
Aquatic Life	Oxygen, Dissolved	5A			7.51	2010	2022
L64R-03-BEN	Grassy Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.84	2008	2020
L64R-04-BEN	Poplar Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.92	2010	2022
L64R-05-BEN	Reedy Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.84	2010	2022
L65R-02-BEN	Bearskin Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.31	2010	2022
L66L-01-DO	Cherrystone Reservoir						
Aquatic Life	Oxygen, Dissolved	5A		104.27		2010	2022
L66L-02-DO	Roaring Fork Reservoir						
Aquatic Life	Oxygen, Dissolved	5A		18.97		2006	2020
L67R-03-BEN	Elkhorn Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			12.47	2010	2022
L71R-04-BAC	Banister River						
Recreation	Escherichia coli	5A			2.39	2008	2020
	Escherichia coli	5A			9.52	2012	2024
L71R-06-BAC	Winn Creek						
Recreation	Escherichia coli	5A			6.94	2008	2020
L71R-07-DO	Gibson Creek						
Aquatic Life	Oxygen, Dissolved	5A			5.26	2008	2020
L73R-01-BAC	Aarons Creek						
Recreation	Escherichia coli	5A			5.03	2010	2014
L73R-01-DO	Aarons Creek						
Aquatic Life	Oxygen, Dissolved	5A			9.04	2010	2022



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
L73R-02-BAC Recreation	North Fork Aarons Creek Escherichia coli	5A			9.43	2012	2024
L74R-01-BAC Recreation	Hyco River Escherichia coli Escherichia coli	5A 5A			17.26 5.90	2006 2008	2014 2014
L74R-02-BAC Recreation	Little Coleman Creek Escherichia coli	5A			3.45	2008	2014
L74R-03-BAC Recreation	Coleman Creek Escherichia coli	5A			8.42	2008	2014
L74R-03-BEN Aquatic Life	Coleman Creek Benthic-Macroinvertebrate Bioassessments	5A			8.42	2008	2020
L74R-04-BAC Recreation	Big Bluewing Creek Escherichia coli	5A			9.66	2008	2020
L74R-04-DO Aquatic Life	Big Bluewing Creek Oxygen, Dissolved	5A			9.66	2008	2020
L74R-05-BEN Aquatic Life	Bowes Branch Benthic-Macroinvertebrate Bioassessments	5A			1.22	2008	2020
L75L-01-PCB Fish Consumption	Kerr Reservoir PCB in Fish Tissue	5A		31,646.71		2002	2014
L75R-03-BAC Recreation	Beech Creek Escherichia coli	5A			4.29	2008	2020
L76R-01-BAC Recreation	Little Buffalo Creek Fecal Coliform Escherichia coli	5A 5A			2.55 2.55	2002 2004	2014 2016
L76R-01-BEN Aquatic Life	Little Buffalo Creek Benthic-Macroinvertebrate Bioassessments	5A			2.55	2012	2024
L77R-01-BAC Recreation	Little Bluestone Creek Escherichia coli	5A			9.46	2006	2018
L77R-02-BAC Recreation	Bluestone Creek Escherichia coli	5A			8.13	2006	2018
L78R-02-BAC Recreation	Unnamed Tributary to Allen Creek Fecal Coliform	5A			0.91	2004	2016
L78R-03-BAC Recreation	Allen Creek Escherichia coli Escherichia coli	5A 5A			8.96 14.82	2006 2012	2018 2024
L78R-03-DO Aquatic Life	Allen Creek Oxygen, Dissolved	5A			8.96	2010	2022



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date	
L78R-04-BEN	Cox Creek				10.45	2008	2020	
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A						
L78R-04-DO	Cox Creek				10.45	2004	2016	
Aquatic Life	Oxygen, Dissolved	5A						
L78R-04-PH	Cox Creek				10.45	2006	2018	
Aquatic Life	pH	5A						
L78R-05-BAC	Cotton Creek				4.32	2008	2020	
Recreation	Escherichia coli	5A						
L78R-06-BAC	Layton Creek				8.40	2012	2024	
Recreation	Escherichia coli	5A						
L78R-06-BEN	Layton Creek				8.40	2012	2024	
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A						
L78R-07-BAC	Kettles Creek				5.20	2012	2024	
Recreation	Escherichia coli	5A						
L78R-07-DO	Kettles Creek				5.20	2012	2024	
Aquatic Life	Oxygen, Dissolved	5A						
L79L-02-HG	Lake Gordon				114.58	2010	2022	
Fish Consumption	Mercury in Fish Tissue	5A						
L79R-01-DO	Flat Creek				1.67	2006	2018	
Aquatic Life	Oxygen, Dissolved	5A						
L79R-02-BAC	Smith Creek				2.15	2008	2020	
Recreation	Escherichia coli	5A						
L79R-02-DO	Smith Creek				2.15	2008	2020	
Aquatic Life	Oxygen, Dissolved	5A						
L79R-02-PH	Smith Creek				2.15	2008	2020	
Aquatic Life	pH	5A						
L80L-01-PCB	Lake Gaston				4,478.71	5.72	2004	2016
Fish Consumption	PCB in Fish Tissue	5A						
L81R-01-DO	Poplar Creek				3.30	2010	2022	
Aquatic Life	Oxygen, Dissolved	5A						
L81R-02-BAC	Lizard Creek				4.26	2010	2022	
Recreation	Escherichia coli	5A						
M02L-01-DDD	Lovills Creek Lake				43.86	2010	2022	
Fish Consumption	DDD	5A						
M02L-01-DDE	Lovills Creek Lake				43.86	2010	2022	
Fish Consumption	DDE	5A						



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
M02L-01-DDT Fish Consumption	Lovills Creek Lake DDT in Fish Tissue	5A		43.86		2010	2022
M02L-01-HG Fish Consumption	Lovills Creek Lake Mercury in Fish Tissue	5A		43.86		2010	2022
M02R-01-BAC Recreation	Lovills Creek Escherichia coli Escherichia coli	5A 5A			2.13 1.97	2008 2010	2020 2022
M02R-01-DDE Fish Consumption	Lovills Creek DDE	5A			2.13	2010	2022
M02R-01-DDT Fish Consumption	Lovills Creek DDT in Fish Tissue	5A			2.13	2010	2022
M02R-01-TEMP Aquatic Life	Lovills Creek Temperature, water	5C			2.13	2008	2020
M03R-01-BAC Recreation	Ararat River Escherichia coli	5A			5.97	2010	2022
M03R-01-HG Fish Consumption	Ararat River Mercury in Fish Tissue	5A			5.97	2010	2022
M03R-01-TEMP Aquatic Life	Johnson Creek Temperature, water	5C			8.87	2008	2020

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



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Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K01R-03-BEN	Finneywood Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.83	2008	2020
K02R-01-BEN	North Meherrin River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.55	2010	2022
K02R-03-BEN	Kits Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.72	2008	2020
K02R-04-BEN	Couches Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.97	2010	2022
K02R-05-DO	Ledbetter Creek						
Aquatic Life	Oxygen, Dissolved	5A			8.64	2010	2022
K05R-05-DO	Hayes Creek						
Aquatic Life	Oxygen, Dissolved	5C			6.32	2010	2022
K05R-05-PH	Hayes Creek						
Aquatic Life	pH	5C			6.32	2010	2022
K05R-06-BEN	Little Genito Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			12.01	2010	2022
K07R-03-BEN	Rocky Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.22	2008	2020
K08L-02-DO	Brunswick Lake						
Aquatic Life	Oxygen, Dissolved	5A		138.38		2006	2024
K08L-02-PH	Brunswick Lake						
Aquatic Life	pH	5A		138.38		2006	2018
K08R-01-BAC	Meherrin River						
Recreation	Escherichia coli	5A			3.07	2010	2022
K08R-01-PH	Meherrin River						
Aquatic Life	pH	5C			3.07	2010	2022
K08R-03-BAC	Wilson Creek						
Recreation	Escherichia coli	5A			2.89	2012	2024
K08R-03-BEN	Wilson Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.89	2010	2022
K08R-03-DO	Wilson Creek						
Aquatic Life	Oxygen, Dissolved	5A			2.89	2010	2022
K08R-03-PH	Wilson Creek						
Aquatic Life	pH	5A			2.89	2010	2022
K09R-01-DO	Meherrin River						
Aquatic Life	Oxygen, Dissolved	5A			27.04	2008	2020



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Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K09R-01-HG Fish Consumption	Meherrin River, Fontaine Creek, Mill Swamp Mercury in Fish Tissue	5A			68.05	2010	2022
K09R-01-PCB Fish Consumption	Meherrin River PCB in Fish Tissue	5A			27.04	2004	2016
K10R-01-DO Aquatic Life	Rattlesnake Creek Oxygen, Dissolved	5C			17.14	2010	2022
K10R-02-DO Aquatic Life	Fontaine Creek (Fountains Creek) Oxygen, Dissolved	5C			17.10	2010	2022
K10R-03-DO Aquatic Life	Quarrel Creek Oxygen, Dissolved	5C			3.34	2010	2022
K10R-04-DO Aquatic Life	Beddingfield Creek Oxygen, Dissolved	5C			4.18	2010	2022
K10R-05-PH Aquatic Life	Long Branch pH	5C			2.67	2010	2022
K10R-06-DO Aquatic Life	Rocky Run Oxygen, Dissolved	5C			0.86	2010	2022
K10R-06-PH Aquatic Life	Rocky Run pH	5C			0.86	2010	2022
K11R-03-DO Aquatic Life	Cattail Creek Oxygen, Dissolved Oxygen, Dissolved	5C 5C			5.33 2.05	2002 2010	2014 2014
K11R-03-PH Aquatic Life	Cattail Creek pH	5C			5.33	2002	2014
K11R-04-DO Aquatic Life	Fontaine Creek Oxygen, Dissolved	5C			7.13	2012	2024
K11R-05-DO Aquatic Life	Beaverpond Creek Oxygen, Dissolved	5C			3.36	2010	2022
K11R-06-PH Aquatic Life	XGV - Fontaine Creek, UT pH	5C			1.83	2010	2022
K11R-07-DO Aquatic Life	XGW - Fontaine Creek, UT Oxygen, Dissolved	5C			4.30	2010	2022
K11R-07-PH Aquatic Life	XGW - Fontaine Creek, UT pH	5C			4.30	2010	2022
K11R-08-DO Aquatic Life	XGU - Fontaine Creek, UT Oxygen, Dissolved	5C			1.83	2010	2022
K11R-08-PH Aquatic Life	XGU - Fontaine Creek, UT pH	5C			1.83	2010	2022



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Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K13R-01-BAC Recreation	Tarrara Creek Escherichia coli	5A			13.94	2008	2020
K13R-02-DO Aquatic Life	Flat Swamp Oxygen, Dissolved	5C			8.14	2004	2016
K13R-03-BAC Recreation	Meherrin River (Lower) Escherichia coli	5A			4.04	2012	2024
K14L-02-DO Aquatic Life	Nottoway Falls Lake Oxygen, Dissolved	5A		32.26		2004	2016
K14L-02-HG Fish Consumption	Nottoway Falls Lake Mercury in Fish Tissue	5A		32.26		2010	2022
K14R-01-BEN Aquatic Life	Nottoway River Benthic-Macroinvertebrate Bioassessments	5A			7.12	2010	2022
K15L-01-HG Fish Consumption	Nottoway Pond Mercury in Fish Tissue	5A		50.69		2010	2022
K15R-03-DO Aquatic Life	Lazaretto Creek Oxygen, Dissolved	5A			4.87	2010	2022
K16L-01-TP Aquatic Life	Fort Pickett Reservoir Phosphorus (Total)	5A		318.95		2012	2024
K16R-03-DO Aquatic Life	Hurricane Branch Oxygen, Dissolved	5A			1.94	2004	2016
K16R-04-BAC Recreation	Nottoway River Escherichia coli	5A			3.38	2006	2018
K16R-05-BAC Recreation	Crooked Creek Escherichia coli	5A			2.98	2008	2020
K16R-06-DO Aquatic Life	Tommeheton Creek Oxygen, Dissolved	5A			7.68	2010	2022
K17R-01-BAC Recreation	Nottoway River Escherichia coli	5A			10.13	2010	2022
K17R-02-BAC Recreation	Waqua Creek Escherichia coli	5A			2.55	2012	2014
K19R-01-BAC Recreation	Masons Branch Escherichia coli	5A			4.89	2012	2024
K19R-01-PH Aquatic Life	Masons Branch pH	5C			4.89	2010	2022
K19R-03-BAC Recreation	Buckskin Creek Escherichia coli	5A			11.89	2010	2016



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K19R-03-DO Aquatic Life	Buckskin Creek Oxygen, Dissolved	5C			1.01	2012	2024
K19R-04-HG Fish Consumption	Nottoway River and Tributaries Mercury in Fish Tissue Mercury in Fish Tissue Mercury in Fish Tissue	5A 5A 5A			112.06 53.12 19.23	2008 2010 2010	2020 2020 2022
K19R-05-BEN Aquatic Life	Nottoway River, UT Benthic-Macroinvertebrate Bioassessments	5A			2.81	2008	2020
K19R-06-BEN Aquatic Life	Nottoway River Benthic-Macroinvertebrate Bioassessments	5A			1.05	2008	2020
K19R-07-DO Aquatic Life	XAD - Buckskin Creek, UT Oxygen, Dissolved	5C			2.90	2012	2024
K19R-08-DO Aquatic Life	XHW - Buckskin Creek, UT Oxygen, Dissolved	5A			1.62	2012	2024
K19R-09-BAC Recreation	XHX - Buckskin Creek, UT Escherichia coli	5A			2.66	2012	2024
K19R-10-BAC Recreation	XHY - Buckskin Creek, UT Escherichia coli	5A			1.61	2012	2024
K21R-01-BAC Recreation	Stony Creek Escherichia coli	5A			10.20	2010	2022
K21R-03-HG Fish Consumption	Stony Creek Mercury in Fish Tissue	5A			8.44	2010	2022
K21R-04-DO Aquatic Life	XID - Chamberlains Bed, UT Oxygen, Dissolved	5C			2.95	2012	2024
K21R-04-PH Aquatic Life	XID - Chamberlains Bed, UT pH	5C			2.95	2012	2024
K22R-02-DO Aquatic Life	Horsepen Branch Oxygen, Dissolved	5C			3.96	2006	2018
K22R-03-BAC Recreation	Sappony Creek Escherichia coli	5A			21.09	2006	2018
K23R-02-BAC Recreation	Joseph Swamp Escherichia coli	5A			10.00	2010	2022
K23R-04-BAC Recreation	Jones Hole Swamp and all its tributaries Escherichia coli	5A			61.84	2010	2022
K23R-10-BAC Recreation	Rowanty Creek Escherichia coli	5A			12.89	2012	2024
K24R-03-BAC Recreation	Hunting Quarter Swamp Escherichia coli	5A			16.60	2008	2020



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K26R-02-BAC Recreation	Three Creek Escherichia coli	5A			6.51	2006	2018
K26R-03-BAC Recreation	Three Creek Escherichia coli	5A			4.34	2008	2020
K26R-04-BAC Recreation	Maclins Creek Escherichia coli	5A			8.70	2012	2024
K27R-02-BAC Recreation	Three Creek - Lower & Upper Escherichia coli Escherichia coli	5A 5A			10.38 8.85	2002 2006	2012 2018
K27R-03-BEN Aquatic Life	Applewhite Swamp Benthic-Macroinvertebrate Bioassessments	5A			7.77	2008	2020
K27R-05-BEN Aquatic Life	Three Creek - Upper Benthic-Macroinvertebrate Bioassessments	5A			8.85	2006	2018
K28R-01-BAC Recreation	Mill Swamp Escherichia coli	5A			10.19	2006	2018
K28R-01-DO Aquatic Life	Mill Swamp Oxygen, Dissolved	5C			10.19	2006	2018
K28R-01-PH Aquatic Life	Mill Swamp pH	5C			10.19	2012	2022
K28R-02-BEN Aquatic Life	Buckhorn Swamp Benthic-Macroinvertebrate Bioassessments	5A			5.67	2008	2020
K28R-03-BEN Aquatic Life	Nottoway R - Middle & Lower Benthic-Macroinvertebrate Bioassessments	5A			14.58	2012	2022
K28R-05-BAC Recreation	Buckhorn Swamp Escherichia coli	5A			4.50	2012	2022
K28R-06-DO Aquatic Life	Nottoway Swamp Oxygen, Dissolved	5C			8.05	2012	2022
K28R-06-PH Aquatic Life	Nottoway Swamp pH	5C			8.05	2012	2022
K29R-01-NH3 Aquatic Life Wildlife	XDX - UT to Seacorrie Swamp Ammonia (Un-ionized) Ammonia (Un-ionized)	5A 5A			1.46 1.46	2002 2002	2014 2014
K29R-02-BAC Recreation	Assamoosick Swamp Escherichia coli	5A			1.91	2010	2022
K29R-03-BAC Recreation	XGT - Assamoosick Swamp, UT Escherichia coli	5A			1.96	2010	2022
K30R-01-BAC Recreation	Darden Mill Run Escherichia coli	5A			10.37	2004	2016



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K30R-01-DO Aquatic Life	Darden Mill Run Oxygen, Dissolved	5C			10.37	2002	2014
K30R-01-PH Aquatic Life	Darden Mill Run pH	5C			10.37	2004	2016
K30R-02-BAC Recreation	Nottoway River - Upper Escherichia coli	5A			0.47	2008	2022
K30R-03-BEN Aquatic Life	Nottoway River - Lower Benthic-Macroinvertebrate Bioassessments	5A			15.36	2012	2022
K31R-04-BEN Aquatic Life	Warwick Swamp Benthic-Macroinvertebrate Bioassessments	5A			2.93	2010	2022
K32R-01-BEN Aquatic Life	Blackwater River - Lower Benthic-Macroinvertebrate Bioassessments	5A			1.03	2008	2020
K32R-13-HG Fish Consumption	Blackwater River Basin Mercury in Fish Tissue Mercury in Fish Tissue	5A 5A 5A 5A 5A 5A 5A			33.64 25.38 528.73 282.27 1.58 214.74 3.89	2004 2006 2008 2008 2010 2010 2012	2016 2018 2018 2020 2020 2022 2016
K32R-18-BEN Aquatic Life	Blackwater River, UT Benthic-Macroinvertebrate Bioassessments	5A			3.13	2008	2020
K33R-02-BAC Recreation	Blackwater River - Upper Escherichia coli Escherichia coli	5A 5A			18.94 0.91	2008 2012	2020 2022
K33R-02-BEN Aquatic Life	Blackwater River - Upper Benthic-Macroinvertebrate Bioassessments	5A			18.94	2008	2020
K33R-03-BEN Aquatic Life	Blackwater River - Lower Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			4.14 5.03	2008 2012	2020 2020
K34R-01-PH Aquatic Life	Mill Swamp pH	5C			8.36	2010	2022
K35L-01-DO Aquatic Life	Airfield Pond Oxygen, Dissolved	5C		120.07		2008	2020
K35L-01-HG Fish Consumption	Airfield Pond Mercury in Fish Tissue	5A		120.07		2010	2022
K35R-02-BAC Recreation	Seacock Swamp - Lower Fecal Coliform	5A			2.63	2004	2016



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K35R-02-BEN	Seacock Swamp - Lower						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.63	2008	2020
K35R-03-BAC	UT Seacock Swamp						
Recreation	Fecal Coliform	5A			1.03	2004	2016
K35R-03-DO	UT Seacock Swamp						
Aquatic Life	Oxygen, Dissolved	5C			1.03	2004	2016
K35R-04-BAC	UT Airfield Pond - Lower						
Recreation	Escherichia coli	5A			0.71	2004	2016
K35R-04-DO	UT Airfield Pond - Lower						
Aquatic Life	Oxygen, Dissolved	5C			0.71	2004	2016
K35R-05-BAC	UT Airfield Pond - Upper						
Recreation	Escherichia coli	5A			0.68	2004	2016
K35R-05-DO	UT Airfield Pond - Upper						
Aquatic Life	Oxygen, Dissolved	5C			0.68	2004	2016
K35R-06-BAC	Seacock Swamp - Upper						
Recreation	Fecal Coliform	5A			0.80	2006	2018
	Escherichia coli	5A			2.45	2012	2022
K35R-07-DO	Brantley Swamp - Lower						
Aquatic Life	Oxygen, Dissolved	5C			3.52	2004	2016
K35R-08-BEN	Round Hill Swamp						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.62	2008	2020
K36R-02-BAC	Blackwater River - Lower Middle						
Recreation	Escherichia coli	5A			6.77	2006	2018
K36R-02-BEN	Black Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.16	2008	2020
K36R-03-BAC	Black Creek - Upper						
Recreation	Escherichia coli	5A			1.23	2010	2022
K36R-04-BAC	Cypress Swamp						
Recreation	Escherichia coli	5A			4.90	2012	2024
K36R-04-BEN	Unsegmented Tributary to Blackwater						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.69	2008	2020
K36R-05-BEN	Blackwater River - Upper						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.41	2012	2024
K36R-06-BEN	Blackwater River - Lower						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.36	2012	2024
K38R-01-BEN	Somerton Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.09	2006	2018



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K38R-02-BAC Recreation	March Swamp Escherichia coli	5A			7.45	2008	2020
K38R-02-DO Aquatic Life	March Swamp Oxygen, Dissolved	5C			7.45	2004	2016
K38R-02-PH Aquatic Life	March Swamp pH	5C			7.45	2004	2016
K38R-03-DO Aquatic Life	Chapel Swamp Oxygen, Dissolved	5C			8.18	2004	2016
K38R-03-PH Aquatic Life	Chapel Swamp pH	5C			8.18	2004	2016
K39L-01-HG Fish Consumption	Lake Drummond Mercury in Fish Tissue	5A		3,241.96		2006	2018
K39L-01-PH Aquatic Life	Lake Drummond pH	5C		3,241.96		2008	2020
K39R-01-HG Fish Consumption	Dismal Swamp Canal & Feeder Ditch to Lake Drummond. Mercury in Fish Tissue	5A			17.58	2004	2016
K39R-02-HG Fish Consumption	Unsegmented rivers in K39R. Mercury in Fish Tissue	5A			15.80	2010	2022
K40R-04-HG Fish Consumption	Northwest River - Middle Mercury in Fish Tissue	5A			6.23	2010	2022
K41R-01-BEN Aquatic Life	Pocaty River Benthic-Macroinvertebrate Bioassessments	5A			7.24	2010	2018
K41R-01-DO Aquatic Life	Pocaty River Oxygen, Dissolved	5C			7.24	2002	2014
K41R-04-BAC Recreation	North Landing River - Middle Escherichia coli	5A			1.43	2008	2020
K41R-05-PCB Fish Consumption	West Neck Creek - Middle PCB in Fish Tissue	5A			3.59	2010	2022
K41R-09-BAC Recreation	Pocaty River Escherichia coli	5A			7.24	2012	2024
K41R-12-BEN Aquatic Life	Unnamed Trib to Milldam Creek Benthic-Macroinvertebrate Bioassessments	5A			0.66	2012	2024
K42E-03-BAC Recreation	Hell Point Creek - Lower (at mouth) Enterococcus	5A	0.026			2004	2016
K42E-04-BAC Recreation	Muddy Creek Enterococcus	5A	0.040			2004	2016



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
K42E-05-BAC Recreation	Beggars Bridge Creek Enterococcus	5A	0.033			2004	2016
K42E-06-BAC Recreation	Ashville Bridge Creek - Lower Enterococcus	5A	0.022			2006	2018
K42E-06-DO Aquatic Life	Ashville Bridge Creek - Lower Oxygen, Dissolved	5C	0.022			2006	2018
K42E-06-PH Aquatic Life	Ashville Bridge Creek - Lower pH	5C	0.022			2010	2022
K42E-10-BAC Recreation	Hell Point Creek - Upper Enterococcus	5A	0.030			2006	2018

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
O01R-01-BAC Recreation	South Fork Holston River and Tributaries Escherichia coli Escherichia coli Fecal Coliform Escherichia coli Fecal Coliform Escherichia coli Escherichia coli	5A 5A 5A 5A 5A 5A 5A			8.36 12.98 9.44 6.14 6.14 9.44 13.48	2002 2004 2004 2006 2006 2010 2010	2014 2016 2016 2018 2018 2016 2022
O01R-02-PH Aquatic Life	Hurricane Creek Tributary pH	5A			1.07	2010	2022
O02R-01-HG Fish Consumption	South Fork Holston River Mercury in Fish Tissue	5A			6.14	2010	2022
O02R-03-BAC Recreation	Beaverdam Creek Escherichia coli	5A			2.01	2006	2018
O02R-03-HG Fish Consumption	Beaverdam Creek Mercury in Fish Tissue	5A			2.01	2010	2022
O02R-04-BAC Recreation	Laurel Creek Escherichia coli	5A			6.14	2006	2018
O02R-05-BAC Recreation	Whitetop Laurel Creek Escherichia coli	5A			3.74	2012	2024
O03R-01-BEN Aquatic Life	Bear Creek and Middle Fork Holston River Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			4.06 3.26	2008 2010	2020 2022
O03R-02-BAC Recreation	Bear Creek Escherichia coli	5A			5.57	2010	2022
O03R-03-BAC Recreation	Staley Creek Escherichia coli	5A			6.85	2010	2022
O04L-01-HG Fish Consumption	Hungry Mother Lake Mercury in Fish Tissue	5A		99.71		2010	2022
O04R-01-BAC Recreation	Hungry Mother Creek Escherichia coli	5A			4.83	2006	2018
O04R-03-BAC Recreation	Laurel Springs Creek Escherichia coli	5A			2.04	2006	2018
O04R-04-BAC Recreation	Walker Creek Escherichia coli	5A			12.78	2006	2018
O04R-05-BAC Recreation	Sulphur Spring Branch and Tributaries Escherichia coli	5A			6.87	2012	2024
O05R-02-BAC Recreation	Greenway Creek Escherichia coli	5A			4.86	2008	2020



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
O05R-02-BEN Aquatic Life	Greenway Creek Benthic-Macroinvertebrate Bioassessments	5A			4.86	2010	2022
O06L-01-HG Fish Consumption	South Holston Reservoir Mercury in Fish Tissue	5A		1,699.32		2010	2022
O06L-01-PCB Fish Consumption	South Holston Reservoir PCB in Fish Tissue	5A		1,699.32		2010	2022
O06R-01-PCB Fish Consumption	Wolf Creek PCB in Fish Tissue	5A			6.62	2006	2018
O06R-02-BAC Recreation	Fifteen Mile Creek Escherichia coli	5A			11.06	2008	2020
O06R-03-BAC Recreation	Spring Creek Escherichia coli	5A			4.37	2008	2020
O06R-03-TEMP Aquatic Life	Spring Creek Temperature, water	5A			4.37	2010	2022
O07R-01-PCB Fish Consumption	Beaver Creek and Little Creek PCB in Fish Tissue	5A			14.70	2006	2016
	PCB in Fish Tissue	5A			2.12	2006	2018
O07R-04-BAC Recreation	Sinking Creek Escherichia coli	5A			3.59	2012	2024
O07R-05-BAC Recreation	Stoffel Creek Escherichia coli	5A			5.09	2012	2024
O08R-01-BAC Recreation	Boozy Creek Escherichia coli	5A			2.60	2012	2024
O09R-01-BAC Recreation	Lick Creek Escherichia coli	5A			5.63	2006	2014
O09R-03-BAC Recreation	North Fork Holston River Fecal Coliform	5A			11.07	2006	2018
	Escherichia coli	5A			11.07	2010	2018
	Escherichia coli	5A			13.65	2010	2022
O10R-01-BAC Recreation	North Fork Holston River Fecal Coliform	5A			1.83	2006	2018
	Escherichia coli	5A			18.57	2006	2018
	Escherichia coli	5A			1.83	2008	2018
O10R-01-PCB Fish Consumption	North Fork Holston River PCB in Fish Tissue	5A			1.83	2006	2018
	PCB in Fish Tissue	5A			13.33	2010	2022



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
O10R-05-BAC Recreation	North Fork Holston River Tributaries Fecal Coliform Escherichia coli Fecal Coliform Escherichia coli Escherichia coli Escherichia coli	5A			2.56 8.15 14.54 2.56 6.39 8.82	2004 2006 2006 2010 2010 2010	2014 2018 2018 2014 2018 2022
O10R-05-BEN Aquatic Life	Laurel Creek Benthic-Macroinvertebrate Bioassessments	5A			2.56	2002	2014
O10R-05-TEMP Aquatic Life	Laurel Creek Temperature, water	5A			6.39	2010	2022
O10R-08-BAC Recreation	Beaver Creek Escherichia coli	5A			2.69	2010	2022
O11L-01-TEMP Aquatic Life	Hidden Valley Lake Temperature, water	5C		57.51		2010	2022
O11L-02-PH Aquatic Life	Laurel Bed Lake pH	5C		312.37		2006	2018
O11L-02-TEMP Aquatic Life	Laurel Bed Lake Temperature, water	5C		312.37		2010	2022
O11R-04-BAC Recreation	Logan Creek Escherichia coli	5A			5.43	2006	2018
O11R-05-BAC Recreation	Toole Creek Escherichia coli	5A			5.99	2006	2018
O11R-06-BAC Recreation	Tumbling Creek Escherichia coli	5A			1.57	2006	2018
O11R-08-BAC Recreation	Brumley Creek Escherichia coli	5A			4.23	2008	2020
O11R-09-BAC Recreation	East Fork Wolf Creek Escherichia coli	5A			3.56	2012	2024
O11R-11-BAC Recreation	Finley Creek Escherichia coli	5A			1.93	2012	2024
O11R-12-BAC Recreation	West Fork Wolf Creek Escherichia coli	5A			3.20	2012	2024
O12R-02-BAC Recreation	Abrams Creek Escherichia coli	5A			11.37	2006	2018
O12R-03-BAC Recreation	Cove Creek Escherichia coli	5A			12.69	2006	2018



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
O12R-03-BEN Aquatic Life	Greendale Creek Benthic-Macroinvertebrate Bioassessments	5A			4.98	2010	2022
O12R-04-BAC Recreation	Little Moccasin Creek Escherichia coli	5A			4.85	2006	2018
O12R-05-BAC Recreation	Nordyke Creek Escherichia coli	5A			5.98	2006	2018
O12R-06-BAC Recreation	Smith Creek Escherichia coli	5A			7.86	2006	2018
O13R-03-BAC Recreation	North Fork Holston River Tributaries Escherichia coli	5A			8.23	2008	2020
	Escherichia coli	5A			15.53	2010	2022
O14R-01-BAC Recreation	Big Moccasin Creek Escherichia coli	5A			27.94	2008	2020
	Escherichia coli	5A			7.86	2010	2022
	Escherichia coli	5A			2.83	2012	2024
P01L-03-HG Fish Consumption	Lake Witten Mercury in Fish Tissue	5A		50.41		2010	2022
P01R-01-BAC Recreation	Clinch River Fecal Coliform	5A			5.50	2004	2016
	Fecal Coliform	5A			6.01	2006	2016
	Escherichia coli	5A			11.51	2010	2016
P01R-02-BAC Recreation	Plum Creek and North Fork Clinch River Fecal Coliform	5A			2.56	2004	2016
	Escherichia coli	5A			2.56	2010	2016
	Escherichia coli	5A			2.60	2010	2022
P01R-02-BEN Aquatic Life	Plum Creek Benthic-Macroinvertebrate Bioassessments	5A			2.56	2010	2022
P01R-03-BAC Recreation	South Fork Clinch River and Cavitts Creek Escherichia coli	5A			6.04	2010	2022
P03R-01-BAC Recreation	Clinch River Tributaries Escherichia coli	5A			2.65	2006	2018
	Escherichia coli	5A			7.56	2010	2022
P03R-01-BEN Aquatic Life	Clinch River Tributaries Benthic-Macroinvertebrate Bioassessments	5A			3.07	2008	2020
	Benthic-Macroinvertebrate Bioassessments	5A			3.99	2010	2022
P03R-02-BAC Recreation	Clinch River Fecal Coliform	5A			3.10	2002	2014
	Escherichia coli	5A			3.10	2010	2014



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
P03R-02-HG	Clinch River				3.10	2010	2022
Fish Consumption	Mercury in Fish Tissue	5A					
P04R-01-BAC	Lewis Creek and Hess Creek				4.83	2006	2018
Recreation	Fecal Coliform	5A			4.83	2010	2018
	Escherichia coli	5A			4.47	2010	2022
P04R-02-BAC	Swords Creek				2.88	2010	2022
Recreation	Escherichia coli	5A					
P04R-02-BEN	Swords Creek				2.88	2006	2014
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
P05R-01-BAC	Indian Creek				3.98	2004	2016
Recreation	Fecal Coliform	5A			3.98	2010	2016
	Escherichia coli	5A					
P05R-04-BAC	Little River				5.18	2004	2016
Recreation	Fecal Coliform	5A			4.11	2008	2020
	Fecal Coliform	5A			5.18	2010	2016
	Escherichia coli	5A			4.11	2012	2024
P05R-05-BAC	Maiden Spring Creek				15.08	2004	2016
Recreation	Fecal Coliform	5A			8.57	2010	2016
	Escherichia coli	5A					
P05R-07-BEN	Laurel Creek				3.39	2012	2024
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
P06R-01-BAC	Big Cedar Creek and Tributaries				1.12	2004	2016
Recreation	Fecal Coliform	5A			7.34	2006	2016
	Escherichia coli	5A			10.40	2006	2018
	Escherichia coli	5A			4.11	2006	2016
	Fecal Coliform	5A			1.12	2008	2020
	Escherichia coli	5A			11.79	2012	2024
P06R-02-BAC	Little Cedar Creek				2.08	2012	2024
Recreation	Escherichia coli	5A					
P07R-01-BAC	Clinch River and Tributaries				27.35	2006	2018
Recreation	Escherichia coli	5A			3.31	2012	2024
P07R-01-BEN	Thompson Creek				3.31	2010	2022
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A					
P08R-01-BAC	Dumps Creek				3.41	2006	2018
Recreation	Escherichia coli	5A					



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Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
	Impaired Use	Cause					
P09L-01-HG	Bark Camp Lake						
Fish Consumption	Mercury in Fish Tissue	5A		28.88		2010	2022
P09R-01-BAC	Clinch River						
Recreation	Fecal Coliform	5A			6.07	2004	2016
	Escherichia coli	5A			11.95	2012	2024
	Escherichia coli	5A			6.07	2012	2016
P09R-03-BAC	Staunton Creek & Fall Creek						
Recreation	Escherichia coli	5A			12.32	2006	2018
P09R-05-BAC	Russell Creek						
Recreation	Escherichia coli	5A			5.06	2008	2020
P09R-06-BAC	Bull Run						
Recreation	Escherichia coli	5A			3.84	2012	2024
P10R-05-BAC	Gravel Lick Creek						
Recreation	Escherichia coli	5A			2.35	2012	2024
P11R-03-BAC	Guest River and Bear Creek						
Recreation	Fecal Coliform	5A			4.07	2002	2014
	Escherichia coli	5A			4.07	2004	2014
	Escherichia coli	5A			3.02	2006	2024
	Escherichia coli	5A			1.83	2010	2022
	Escherichia coli	5A			26.46	2012	2024
P11R-03-PCB	Guest River and Bear Creek						
Fish Consumption	PCB in Fish Tissue	5A			4.07	2004	2016
	PCB in Fish Tissue	5A			1.83	2004	2018
	PCB in Fish Tissue	5A			19.34	2006	2018
P11R-05-BEN	Clear Creek and Eastland Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.39	2010	2022
P11R-11-BEN	Machine Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.16	2004	2016
P12R-01-BEN	Bark Camp Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.01	2004	2016
P12R-01-PH	Bark Camp Branch						
Aquatic Life	pH	5A			3.01	2010	2022
P12R-02-BEN	Devil Fork						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.30	2006	2018
P12R-03-BAC	Stony Creek						
Recreation	Escherichia coli	5A			5.04	2008	2020
P13R-03-BAC	Clinch River, Cove Creek and Stock Creek						
Recreation	Escherichia coli	5A			11.45	2008	2020



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
P14R-01-BAC Recreation	Copper Creek, Moll Creek and Valley Creek Escherichia coli	5A			19.32	2008	2020
P14R-02-BEN Aquatic Life	Blackoak Branch Tributary Benthic-Macroinvertebrate Bioassessments	5A			0.99	2012	2024
P15R-00-BAC Recreation	North Fork Clinch River Fecal Coliform Escherichia coli Escherichia coli	5A 5A 5A			5.59 11.01 5.59	2002 2008 2010	2014 2020 2014
P16R-01-BAC Recreation	Blackwater Creek Fecal Coliform Escherichia coli	5A 5A			2.11 2.11	2004 2008	2016 2020
P17R-00-PH Aquatic Life	Dark Hollow pH	5A			1.32	2012	2024
P17R-07-BEN Aquatic Life	Pigeon Creek Benthic-Macroinvertebrate Bioassessments	5A			3.99	2012	2024
P17R-08-BEN Aquatic Life	Powell River Benthic-Macroinvertebrate Bioassessments	5A			5.58	2010	2022
P17R-09-BEN Aquatic Life	Roaring Fork Benthic-Macroinvertebrate Bioassessments	5A			4.85	2010	2022
P18L-01-HG Fish Consumption	Big Cherry Reservoir Mercury in Fish Tissue	5A		104.00		2010	2022
P18L-01-PH Aquatic Life	Big Cherry Reservoir pH	5C		104.00		2002	2014
P18R-03-BAC Recreation	South Fork Powell River Escherichia coli	5A			5.60	2010	2022
P19R-01-BAC Recreation	Mud Creek Escherichia coli	5A			1.72	2010	2022
P20L-01-HG Fish Consumption	Lake Keeokee Mercury in Fish Tissue	5A		97.47		2010	2022
P20R-03-BAC Recreation	Reeds Creek Escherichia coli	5A			0.91	2012	2024
P21R-02-BAC Recreation	Hardy Creek Escherichia coli	5A			12.13	2006	2018
P21R-03-BAC Recreation	Powell River and Town Creek Escherichia coli Escherichia coli	5A 5A			2.31 3.57	2006 2012	2018 2024
P21R-04-BAC Recreation	Dry Creek Escherichia coli	5A			8.56	2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
P21R-06-BAC	Station Creek						
Recreation	Escherichia coli	5A			2.17	2012	2024
P22R-01-BAC	Wallen Creek						
Recreation	Escherichia coli	5A			2.02	2006	2018
	Escherichia coli	5A			40.58	2012	2024
P22R-01-TEMP	Wallen Creek						
Aquatic Life	Temperature, water	5A			27.92	2012	2024
P22R-02-TEMP	Wallen Creek						
Aquatic Life	Temperature, water	5A			12.66	2012	2024
P23R-02-BAC	Martin Creek						
Recreation	Escherichia coli	5A			9.62	2008	2020
P24R-01-BAC	Indian Creek						
Recreation	Escherichia coli	5A			7.99	2008	2020
Q03R-02-PCB	Knox Creek and Tributaries						
Fish Consumption	PCB in Fish Tissue	5A			93.26	2004	2016
	PCB in Fish Tissue	5A			8.43	2006	2016
	PCB in Fish Tissue	5A			5.99	2006	2018
Q03R-03-BAC	Guess Fork, Pawpaw Creek, and Jacobs Fork						
Recreation	Fecal Coliform	5A			8.43	2004	2016
	Escherichia coli	5A			8.43	2010	2016
	Escherichia coli	5A			6.70	2010	2022
Q04R-01-BAC	Levisa Fork and Tributaries						
Recreation	Escherichia coli	5A			4.69	2008	2020
Q05R-00-TEMP	Dismal Creek						
Aquatic Life	Temperature, water	5A			5.31	2008	2020
Q05R-01-BAC	Dismal Creek						
Recreation	Escherichia coli	5A			5.31	2006	2018
	Escherichia coli	5A			12.12	2010	2022
Q08R-01-BAC	Bull Creek and Poplar Creek						
Recreation	Escherichia coli	5A			3.14	2008	2020
	Escherichia coli	5A			16.83	2008	2022
Q08R-02-BEN	Home Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.74	2010	2022
Q09R-01-BAC	Russell Fork						
Recreation	Escherichia coli	5A			8.68	2004	2016
	Escherichia coli	5A			14.52	2010	2022
Q09R-01-BEN	Indian Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.50	2012	2024



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Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
	Impaired Use	Cause					
Q09R-02-BEN	Sullivan Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.60	2008	2020
Q10R-01-BEN	Fryingpan Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.10	2012	2024
Q11R-02-BAC	McClure River						
Recreation	Escherichia coli	5A			10.01	2006	2016
	Escherichia coli	5A			3.26	2006	2018
	Escherichia coli	5A			3.05	2008	2020
	Escherichia coli	5A			10.53	2012	2024
Q11R-02-BEN	McClure River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			13.27	2008	2020
	Benthic-Macroinvertebrate Bioassessments	5A			8.27	2010	2022
Q12R-01-BAC	Russell Prater Creek						
Recreation	Escherichia coli	5A			17.02	2008	2020
Q12R-04-BAC	Russell Fork						
Recreation	Escherichia coli	5A			3.77	2012	2024
Q13L-01-HG	John Flannagan Reservoir						
Fish Consumption	Mercury in Fish Tissue	5A		1,177.21		2010	2022
Q13R-02-TEMP	North Fork Pound River						
Aquatic Life	Temperature, water	5C			10.59	2012	2022
	Temperature, water	5C			16.60	2012	2024
Q13R-03-BAC	Pound River						
Recreation	Escherichia coli	5A			16.60	2008	2020
Q13R-03-BEN	Pound River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.10	2006	2018
Q13R-03-TEMP	North Fork Pound River						
Aquatic Life	Temperature, water	5A			1.20	2010	2022
Q13R-04-BEN	Indian Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.78	2012	2024
Q13R-06-BEN	Pound River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			16.60	2004	2016
Q13R-07-BEN	Bear Pen Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.82	2010	2022
Q13R-08-BEN	North Fork Pound River tributaries						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.59	2010	2022
Q13R-09-BEN	North Fork Pound River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.96	2010	2022



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Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause						
Q14R-01-BAC	Cranesnest River						
Recreation	Escherichia coli	5A			7.27	2004	2016
	Escherichia coli	5A			12.32	2010	2022
Q14R-01-BEN	Birchfield Creek and Cranesnest River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			14.70	2010	2022
Q14R-02-BEN	Dotson Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.61	2012	2024

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C01E-01-SF2 Shellfishing	Great Wicomico River, Blackwells Creek Fecal Coliform	5B	0.125			2004	2016
C01E-02-SF2 Shellfishing	Balls Creek Fecal Coliform	5B	0.080			2002	2014
C01E-03-SF2 Shellfishing	Tipers Creek Fecal Coliform	5B	0.014			2002	2014
C01E-05-SF2 Shellfishing	Whays Creek Fecal Coliform	5B	0.040			2006	2018
C01E-06-SF2 Shellfishing	Warehouse Creek Fecal Coliform	5B	0.021			2006	2018
C01E-07-SF Shellfishing	Horn Harbor Fecal Coliform	5B	0.069			2002	2014
C01E-09-SF2 Shellfishing	Prentice Creek Fecal Coliform	5B	0.004			2010	2022
C01E-12-SF2 Shellfishing	Mill Creek Fecal Coliform	5B	0.026			2004	2016
C01E-14-SF Shellfishing	Gaskin Pond Fecal Coliform	5B	0.115			2010	2022
C01E-17-PCB Fish Consumption	Chesapeake Bay and Tidal Tributaries PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue	5A	1,829.110			2006	2018
		5A	0.024			2010	2018
		5A	0.003			2012	2018
C01E-31-SF Shellfishing	Jarvis Creek Fecal Coliform	5B	0.025			2010	2022
C01E-33-SF Shellfishing	Betts Mill Creek Fecal Coliform	5B	0.082			2004	2016
C01E-37-SF Shellfishing	Harveys Creek Fecal Coliform	5B	0.045			2008	2020
C01E-38-SF Shellfishing	Cranes Creek Fecal Coliform	5B	0.019			2008	2020
C01E-40-SF Shellfishing	Coles Creek Fecal Coliform	5B	0.019			2008	2020
C01E-42-SF Shellfishing	Jarvis Creek Fecal Coliform	5B	0.016			2008	2020
C01E-56-SF Shellfishing	Head River Branch Fecal Coliform	5B	0.009			2012	2024
C01E-57-SF Shellfishing	Reason Creek Fecal Coliform	5B	0.025			2010	2022



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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C01E-58-SF Shellfishing	XEV - Mill Creek, UT Fecal Coliform	5B	0.006			2012	2024
C01E-60-SF Shellfishing	Lees Cove Fecal Coliform	5B	0.010			2012	2024
C01R-01-BAC Recreation	Crabbe Mill Stream Escherichia coli	5A			3.89	2012	2024
C01R-01-DO Aquatic Life	Crabbe Mill Stream Oxygen, Dissolved	5C			3.89	2012	2024
C01R-01-PH Aquatic Life	Crabbe Mill Stream pH	5C			3.89	2012	2024
C02R-03-HG Fish Consumption	Dragon Swamp/Piankatank River Mercury in Fish Tissue	5A	2.947			2004	2016
	Mercury in Fish Tissue	5A			32.50	2006	2016
	Mercury in Fish Tissue	5A	0.062			2008	2016
C03E-03-SF Shellfishing	Frenchs Creek Fecal Coliform	5B	0.010			2002	2014
C03E-04-BAC Recreation	Ferry Creek Enterococcus	5A	0.124			2010	2022
C03E-07-SF Shellfishing	Moore Creek Fecal Coliform	5B	0.017			2002	2014
C03E-08-SF2 Shellfishing	Jackson Creek Fecal Coliform	5B	0.002			2006	2018
C03E-09-SF Shellfishing	Piankatank River, UT Fecal Coliform	5B	0.007			2012	2024
C03E-10-EBEN Aquatic Life	Piankatank River Estuarine Bioassessments	5A	1.169			2006	2018
C03E-14-EBEN Aquatic Life	Piankatank River Estuarine Bioassessments	5A	0.785			2008	2020
C03E-15-SF Shellfishing	Dancing Creek Fecal Coliform	5B	0.022			2008	2020
C03E-19-SF Shellfishing	Porpoise Cove Fecal Coliform	5B	0.011			2008	2020
C04E-01-SF2 Shellfishing	Queens Creek, UT Fecal Coliform	5B	0.019			2002	2014
C04E-05-SF2 Shellfishing	Stutts Creek and Morris Creek Fecal Coliform	5B	0.109			2002	2014
C04E-07-SF2 Shellfishing	Billups Creek Fecal Coliform	5B	0.010			2002	2014



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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C04E-08-SF2 Shellfishing	North River Fecal Coliform	5B	0.028			2002	2014
C04E-12-SF Shellfishing	Davis Creek Fecal Coliform	5B	0.035			2002	2014
C04E-25-SF Shellfishing	Winder Creek Fecal Coliform	5B	0.025			2002	2014
C04E-28-SF Shellfishing	Barn Creek Fecal Coliform	5B	0.019			2008	2020
C04E-29-SF Shellfishing	Miles Creek Fecal Coliform	5B	0.032			2012	2024
C04E-30-SF Shellfishing	Lanes Creek, UT Fecal Coliform	5B	0.002			2008	2020
C04E-31-SF Shellfishing	Stutts Creek (Hole in the Wall) Fecal Coliform	5B	0.026			2008	2020
C04E-32-SF Shellfishing	Hudgins Creek Fecal Coliform	5B	0.015			2008	2020
C04E-42-SF Shellfishing	Weston Creek Fecal Coliform	5B	0.025			2008	2020
C04E-47-SF Shellfishing	Belleville Creek Fecal Coliform	5B	0.037			2008	2020
C04E-48-SF Shellfishing	Woodas Creek Fecal Coliform	5B	0.066			2008	2020
C04E-49-SF Shellfishing	East River Fecal Coliform	5B	0.099			2008	2020
C04E-50-SF Shellfishing	East River, UT Fecal Coliform	5B	0.016			2008	2020
C04E-51-SF Shellfishing	East River, UT Fecal Coliform	5B	0.023			2008	2020
C04E-52-SF Shellfishing	Lanes Creek Fecal Coliform	5B	0.026			2002	2024
C04E-53-BAC Recreation	Whites Creek Enterococcus	5A	0.042			2012	2024
C04E-54-SF Shellfishing	Davis Creek Fecal Coliform	5B	0.009			2012	2024
C04E-55-SF Shellfishing	Raymond Creek Fecal Coliform	5B	0.026			2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C04R-01-DO Aquatic Life	East River Oxygen, Dissolved	5C			1.79	2012	2024
C04R-01-PH Aquatic Life	East River pH	5C			1.79	2012	2024
C05E-01-SF2 Shellfishing	Ware River Fecal Coliform	5B	0.212			2002	2014
C05E-02-SF2 Shellfishing	Wilson Creek Fecal Coliform	5B	0.077			2002	2014
C06R-01-DO Aquatic Life	Northwest Branch of Severn River Oxygen, Dissolved	5C			2.22	2008	2020
C07E-01-PCB Fish Consumption	Chesapeake Bay & Tidal Tributaries VDH Fish Consumption Advisory for PCBs PCB in Fish Tissue	5A	16.015			2006	2018
C07E-04-BAC2 Recreation	Poquoson River - Upper Enterococcus	5A	0.121			2006	2018
C07E-05-BAC2 Recreation	Southwest Br. Back River - Mouth Fecal Coliform	5A	0.227			2002	2014
C07E-11-SF2 Shellfishing	Poquoson River - Upper Fecal Coliform	5B	0.054			2008	2020
C07E-24-SF Shellfishing	Unnamed Cove @ Crane & Adjacent Mouth Patricks Cr. And Upper Hodges Creek Fecal Coliform	5B	0.021			2004	2016
		5B	0.038			2006	2018
C07E-25-SF Shellfishing	Lyons Creek - Upper, Middle and Lower Fecal Coliform	5B	0.042			2006	2018
	Fecal Coliform	5B	0.028			2008	2018
	Fecal Coliform	5B	0.049			2012	2018
C07E-26-SF Shellfishing	Floyds Bay Fecal Coliform	5B	0.052			2006	2018
C07E-33-EBEN Aquatic Life	Northwest Br. Back River - Upper near Marsh Point Estuarine Bioassessments	5A	0.261			2010	2022
C07E-34-SF Shellfishing	Unnamed Inlet - Back R South Shore near Wallace Creek Fecal Coliform	5B	0.006			2010	2022
C07E-36-SF Shellfishing	Grandview Pier & Saltponds Beaches [No TMDL] Fecal Coliform	5B	0.119			2010	2022
C07E-37-SF Shellfishing	Boathouse Creek-Upper Fecal Coliform	5B	0.042			2012	2024
C07E-38-SF Shellfishing	Bennett Creek - Upper (DSS_06-IR) Fecal Coliform	5B	0.032			2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C07E-39-SF Shellfishing	Easton Cove Fecal Coliform	5B	0.057			2012	2024
C07E-40-SF Shellfishing	Grunland Creek - Mouth Fecal Coliform	5B	0.048			2012	2024
C07E-41-SF Shellfishing	Unsegmented estuaries in Back River - DSS Fecal Coliform	5B	0.097			2012	2024
C07L-01-CU Aquatic Life Wildlife	Harwood Mills Reservoir Copper Copper	5A		257.68		2004	2016
C07L-01-DO Aquatic Life	Harwood Mills Reservoir Oxygen, Dissolved	5A		257.68		2004	2016
C07R-01-DO Aquatic Life	Newmarket Creek - Lower Riverine Oxygen, Dissolved	5A			1.98	2006	2018
C08E-01-EBEN Aquatic Life	Lynnhaven River - Mainstem Estuarine Bioassessments	5A	7.915			2008	2020
C08E-01-PCB Fish Consumption	Lynnhaven River System VDH Fish Consumption Advisory PCB in Fish Tissue	5A	3.537			2006	2018
C08L-01-CHLA Aquatic Life	Lake Whitehurst Chlorophyll-a	5A		494.93		2010	2022
C08L-01-DO Aquatic Life	Lake Whitehurst Oxygen, Dissolved	5A		494.93		2008	2020
C08L-01-HG Fish Consumption	Lake Whitehurst Mercury in Fish Tissue	5A		494.93		2008	2020
C08L-01-PCB Fish Consumption	Lake Whitehurst VDH Fish Consumption Advisory PCB in Fish Tissue	5A		494.93		2006	2018
C08L-01-TP Aquatic Life	Lake Whitehurst Phosphorus (Total)	5A		494.93		2010	2022
C08L-03-CHLA Aquatic Life	Little Creek Reservoir Chlorophyll-a	5A		199.79		2010	2022
C08L-03-DO Aquatic Life	Little Creek Reservoir Oxygen, Dissolved	5A		199.79		2006	2018
C08L-03-PCB Fish Consumption	Little Creek Reservoir VDH Fish Consumption Advisory PCB in Fish Tissue	5A		199.79		2008	2020
C08L-03-TP Aquatic Life	Little Creek Reservoir Phosphorus (Total)	5A		199.79		2010	2022
C08L-04-CHLA Aquatic Life	Lake Smith Chlorophyll-a	5A		184.89		2010	2022



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C08L-04-DO Aquatic Life	Lake Smith Oxygen, Dissolved	5A		184.89		2002	2014
C08L-04-TP Aquatic Life	Lake Smith Phosphorus (Total)	5A		184.89		2010	2022
C08L-06-HG Fish Consumption	Lake Trashmore - Western Pond VDH Fish Consumption Advisory for Mercury Mercury in Fish Tissue	5A		54.39		2006	2018
C08L-06-PCB Fish Consumption	Lake Trashmore - Western Pond VDH Fish Consumption Advisory for PCBs PCB in Fish Tissue	5A		54.39		2006	2018
C09R-02-BAC Recreation	Unnamed tributary to Pitts Creek Escherichia coli	5A			7.32	2004	2016
C09R-02-PH Aquatic Life	Unnamed tributary to Pitts Creek pH	5A			7.32	2006	2018
C10E-02-BAC Recreation	Muddy Creek - Upper Enterococcus	5A	0.214			2006	2018
C10E-12-SF2 Shellfishing	Guilford Creek - Upper [No TMDL] Fecal Coliform	5B	0.033			2008	2020
C10E-13-SF Shellfishing	Starling Creek - Lower Fecal Coliform	5B	0.055			2008	2024
C10E-17-SF2 Shellfishing	Messongo Creek - Middle [NO TMDL] Fecal Coliform	5B	0.058			2002	2014
C10E-19-SF Shellfishing	Starling Creek - Upper Fecal Coliform	5B	0.036			2012	2024
C10R-01-BAC2 Recreation	Unnamed tributary from Tyson Foods Escherichia coli	5A			1.60	2010	2020
C10R-01-BEN2 Aquatic Life	Unnamed tributary from Tyson Foods Benthic-Macroinvertebrate Bioassessments	5A			1.60	2008	2020
C10R-03-BEN Aquatic Life	Guilford Creek Benthic-Macroinvertebrate Bioassessments	5A			0.85	2008	2020
C11E-15-SF Shellfishing	Matchotank Creek - Upper Fecal Coliform	5B	0.069			2006	2018
C11E-20-SF Shellfishing	Parkers Creek - Upper & Middle Fecal Coliform	5B	0.046			2008	2020
		5B	0.030			2010	2022
C11E-22-SF Shellfishing	Chesconessex Creek - N. Branch -DSS Condemnation Fecal Coliform	5B	0.030			2010	2022
C11R-01-BAC Recreation	Joynes Branch Escherichia coli	5A			2.17	2008	2020



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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C12R-01-BEN Aquatic Life	Taylor Creek Benthic-Macroinvertebrate Bioassessments	5A			0.88	2004	2016
C12R-02-BEN Aquatic Life	Bull Branch Benthic-Macroinvertebrate Bioassessments	5A			2.20	2008	2020
C13E-02-BAC Recreation	Nassawadox Creek - Lower Enterococcus	5A	2.070			2008	2020
C13E-11-SF2 Shellfishing	Church Creek - Middle, UT North Cove [No TMDL] Fecal Coliform	5B	0.027			2004	2016
C13E-18-SF2 Shellfishing	Mclean Gut-Lower Fecal Coliform	5B	0.018			2012	2024
C13E-20-SF Shellfishing	Nassawadox Creek - Middle, N. Shore Tribs Fecal Coliform	5B	0.140			2008	2020
C13E-22-SF Shellfishing	Shields Cove Fecal Coliform	5B	0.025			2008	2020
C13E-23-SF Shellfishing	Fisher Cove Fecal Coliform	5B	0.028			2008	2024
C13R-01-BEN Aquatic Life	Taylor Branch - Occohannock Cr. Benthic-Macroinvertebrate Bioassessments	5A			0.97	2008	2020
C14E-13-SF Shellfishing	Mattawoman Creek - Upper Fecal Coliform	5B	0.101			1998	2010
C14E-18-SF Shellfishing	UT to Hungars Creek Fecal Coliform	5B	0.050			2012	2024
C15E-13-SF Shellfishing	Kings Creek - Upper Middle [No TMDL] Fecal Coliform	5B	0.016			2010	2022
C16E-10-SF2 Shellfishing	Old Plantation Creek - Upper Fecal Coliform	5B	0.176			2008	2020
CB7PH-EBEN-BAY Aquatic Life	Chesapeake Bay segment CB7PH Estuarine Bioassessments	5A	544.619			2010	2022
D01E-02-DO Aquatic Life	Little Mosquito Creek Oxygen, Dissolved Oxygen, Dissolved	5A 5A	0.138 0.071			2004 2008	2016 2020
D01E-03-BAC Recreation	Powells Bay Enterococcus	5A	0.595			2006	2018
D01E-04-DO Aquatic Life	Swan Gut Creek Oxygen, Dissolved	5A	0.100			2004	2016
D02E-01-DO Aquatic Life	Assawoman Creek Oxygen, Dissolved Oxygen, Dissolved	5A 5A	0.063 0.073			2004 2008	2014 2020



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
D02E-11-SF Shellfishing	Little Cat Creek Fecal Coliform	5B	0.096			2006	2018
D03E-01-DO Aquatic Life	Gargathy Creek - Upper & Lower Oxygen, Dissolved Oxygen, Dissolved	5A 5A	0.009 0.122			2004 2006	2016 2018
D03E-02-BAC Recreation	Finney Creek - Upper Fecal Coliform	5A	0.002			2004	2016
D03E-04-DO Aquatic Life	Folly Creek - Upper & Middle Oxygen, Dissolved	5A	0.376			2006	2018
D03E-07-BAC Recreation	Wachapreague Channel Enterococcus	5A	0.032			2008	2020
D03E-08-DO Aquatic Life	Northam Creek Oxygen, Dissolved	5A	0.028			2004	2016
D03R-02-BAC Recreation	Gargathy Creek Escherichia coli	5A			2.69	2004	2016
D03R-02-BEN Aquatic Life	Gargathy Creek Benthic-Macroinvertebrate Bioassessments	5A			2.69	2002	2014
D03R-03-BEN Aquatic Life	Ross Branch Benthic-Macroinvertebrate Bioassessments	5A			3.07	2002	2014
D03R-04-BEN Aquatic Life	Unnamed tributary to Folly Creek Benthic-Macroinvertebrate Bioassessments	5A			1.46	2002	2014
D03R-05-BEN Aquatic Life	Rattrap Creek Benthic-Macroinvertebrate Bioassessments	5A			2.60	2012	2024
D04E-01-BAC Recreation	Red Bank Creek - Middle & Lower Enterococcus	5A	0.029			2008	2020
D04E-01-DO Aquatic Life	Red Bank Creek Oxygen, Dissolved Oxygen, Dissolved	5A 5A	0.003 0.020			2004 2008	2016 2020
D04E-01-SF Shellfishing	Red Bank Creek- Upper & Middle Fecal Coliform	5B	0.012			2006	2018
D04E-02-DO Aquatic Life	Unnamed tributary to Red Bank Creek. Oxygen, Dissolved	5A	0.009			2004	2016
D04E-02-SF Shellfishing	Unnamed tributary to Red Bank Creek. Fecal Coliform	5B	0.009			2006	2018
D04E-05-BAC Recreation	Machipongo River Enterococcus	5A	0.314			2008	2020
D04E-05-SF Shellfishing	Machipongo River Fecal Coliform	5B	0.314			2008	2020



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
D04R-01-BAC Recreation	Red Bank Creek Fecal Coliform	5A			1.27	2004	2016
D04R-02-BEN Aquatic Life	Greens Creek Benthic-Macroinvertebrate Bioassessments	5A			1.42	2012	2024
D04R-03-BEN Aquatic Life	Frogstool Branch Benthic-Macroinvertebrate Bioassessments	5A			2.11	2012	2024
D05E-01-HG Fish Consumption	Oyster Slip (Harbor)- Upper Mercury in Fish Tissue	5A	0.034			2010	2022
D05R-01-BAC Recreation	Taylor Creek Fecal Coliform	5A			1.22	2002	2014
D05R-02-BAC Recreation	Holt Creek Escherichia coli	5A			1.91	2004	2016
D05R-03-BAC Recreation	Holt Creek Unnamed Tributary Escherichia coli	5A			1.38	2004	2016
D05R-03-BEN Aquatic Life	Holt Creek Unnamed Tributary Benthic-Macroinvertebrate Bioassessments	5A			1.38	2012	2024
D06E-01-DO Aquatic Life	Magothy Bay- Lower Oxygen, Dissolved	5A	0.037			2004	2016
D06E-02-PCB Fish Consumption	Raccoon Creek PCB in Fish Tissue	5A	0.004			2010	2022
D06R-01-PH Aquatic Life	Mill Creek pH	5A			1.57	1998	2010
D06R-02-BAC Recreation	Narrow Channel Branch Fecal Coliform	5A			1.33	2004	2016
D06R-02-BEN Aquatic Life	Narrow Channel Branch Benthic-Macroinvertebrate Bioassessments	5A			1.33	2004	2016
D06R-03-BAC Recreation	Tommy's Ditch Escherichia coli	5A			2.29	2008	2020
D06R-03-DO Aquatic Life	Tommy's Ditch Oxygen, Dissolved	5A			2.29	2008	2020
D07E-02-BAC Recreation	Lake Rudee - Upper Enterococcus	5A	0.089			2004	2016
D07E-02-SF Shellfishing	Lake Rudee - Upper Fecal Coliform	5B	0.089			2006	2018
D07E-04-BAC Recreation	Owl Creek - Upper & Lower Enterococcus	5A	0.005			2002	2014
		5A	0.017			2008	2020



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
D07E-04-DO	Owl Creek- Upper & Lower						
Aquatic Life	Oxygen, Dissolved	5A	0.005			2006	2018
	Oxygen, Dissolved	5A	0.017			2008	2020
D07E-04-SF	Owl Creek - Upper & Lower						
Shellfishing	Fecal Coliform	5B	0.022			2006	2018
D07E-10-DO	Lake Wesley						
Aquatic Life	Oxygen, Dissolved	5A	0.034			2012	2024
D07E-10-SF	Lake Rudee- Lower and Lake Wesley						
Shellfishing	Fecal Coliform	5B	0.060			2006	2018

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
F01L-01-HG Fish Consumption	Lake Gordonsville Mercury in Fish Tissue	5A		77.23		2006	2018
F01R-01-BEN Aquatic Life	South Anna River Benthic-Macroinvertebrate Bioassessments	5A			1.83	2010	2022
F01R-01-DO Aquatic Life	Hudson River Oxygen, Dissolved	5A			3.42	2012	2024
F01R-02-BEN Aquatic Life	Wheeler Creek Benthic-Macroinvertebrate Bioassessments	5A			5.66	2008	2020
F01R-03-BEN Aquatic Life	Camp Creek Benthic-Macroinvertebrate Bioassessments	5A			1.88	2012	2024
F03R-03-DO Aquatic Life	Cub Creek Oxygen, Dissolved	5A			3.04	2008	2020
F04R-03-DO Aquatic Life	Stagg Creek Oxygen, Dissolved	5C			6.52	2008	2020
F06R-04-BAC Recreation	North Anna River Escherichia coli	5A			3.07	2006	2018
	Escherichia coli	5A			2.58	2010	2022
F06R-05-BAC Recreation	Christopher Creek Escherichia coli	5A			1.82	2010	2022
F06R-06-BAC Recreation	Hickory Creek Escherichia coli	5A			1.58	2012	2024
F07L-01-BZOKFL Fish Consumption	Gold Mine Creek Benzo[k]fluoranthene	5A		73.82	7.33	2010	2022
F07L-01-HG Fish Consumption	Lake Anna Mercury in Fish Tissue	5A		1,562.92		2010	2022
F07L-01-PAHHMW Fish Consumption	Gold Mine Creek Benzo(a)pyrene (PAHs)	5A		73.82	7.33	2010	2022
F07L-01-PCB Fish Consumption	Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries PCB in Fish Tissue	5A		2,108.31		2002	2014
	PCB in Fish Tissue	5A		7,485.85	22.34	2006	2018
	PCB in Water Column	5A		1,245.08		2010	2022
F07L-02-HG Fish Consumption	Terrys Run/Lake Anna Mercury in Fish Tissue	5A		442.34		2010	2022
F07L-02-PAHHMW Fish Consumption	Gold Mine Creek Benzo[b]fluoranthene	5A		73.82	7.33	2010	2022
F07R-01-BEN Aquatic Life	Pamunkey Creek Benthic-Macroinvertebrate Bioassessments	5A			6.82	2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
F08R-01-CD	Contrary Creek						
Aquatic Life	Cadmium	5A		26.38	5.42	2008	2020
Wildlife	Cadmium	5A		26.38	5.42	2008	2020
F08R-01-CU	Contrary Creek						
Aquatic Life	Copper	5A		26.38	5.42	2008	2020
Wildlife	Copper	5A		26.38	5.42	2008	2020
F08R-01-PH	Contrary Creek						
Aquatic Life	pH	5A			5.42	2002	2014
	pH	5A		26.38		2008	2020
F08R-01-ZN	Contrary Creek						
Aquatic Life	Zinc	5A		26.38	5.42	2008	2020
Wildlife	Zinc	5A		26.38	5.42	2008	2020
F09R-01-DO	Northeast Creek						
Aquatic Life	Oxygen, Dissolved	5C			9.38	2008	2020
F09R-01-PH	Northeast Creek						
Aquatic Life	pH	5C			1.03	2004	2016
F09R-02-BEN	North Anna River, UT (XHS)						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.98	2008	2020
F09R-02-PH	Northeast Creek						
Aquatic Life	pH	5C			3.24	2008	2020
F09R-03-PH	North Anna River, UT (XIM)						
Aquatic Life	pH	5C			0.69	2010	2022
F09R-04-BAC	Mill Creek						
Recreation	Escherichia coli	5A			4.39	2012	2024
F09R-04-PH	Mill Creek						
Aquatic Life	pH	5C			4.39	2012	2024
F10R-01-BAC	Little River						
Recreation	Escherichia coli	5A			4.01	2006	2018
F10R-01-DO	Little River						
Aquatic Life	Oxygen, Dissolved	5C			4.01	2006	2018
F11R-01-BAC	Little River						
Recreation	Escherichia coli	5A			10.77	2008	2020
F11R-01-BEN	Locust Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.29	2010	2022
F11R-01-DO	Little River						
Aquatic Life	Oxygen, Dissolved	5A			10.77	2008	2020
F11R-02-BAC	Beaverdam Creek						
Recreation	Escherichia coli	5A			8.47	2012	2024



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York River Basin		Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause									
F11R-02-PH	Beaverdam Creek									
Aquatic Life	pH				5A			8.47	2012	2024
F12R-03-PH	Hornquarter Creek									
Aquatic Life	pH				5C			6.79	2002	2014
F12R-05-DO	Mechumps Creek									
Aquatic Life	Oxygen, Dissolved				5A			1.05	2010	2022
F12R-05-PH	Mechumps Creek									
Aquatic Life	pH				5A			1.05	2006	2018
F12R-07-BAC	Crump Creek									
Recreation	Escherichia coli				5A			10.08	2008	2020
F12R-07-PH	Crump Creek									
Aquatic Life	pH				5A			10.08	2010	2022
F12R-08-BAC	Pamunkey River									
Recreation	Escherichia coli				5A			12.26	2008	2020
F12R-10-PH	Millpond Creek									
Aquatic Life	pH				5A			3.02	2012	2024
F12R-11-BAC	Kersey Creek									
Recreation	Escherichia coli				5A			2.76	2012	2024
F12R-11-PH	Kersey Creek									
Aquatic Life	pH				5A			2.76	2012	2024
F12R-12-BAC	XJC - Crump Creek, UT									
Recreation	Escherichia coli				5A			1.79	2012	2024
F12R-12-PH	XJC - Crump Creek, UT									
Aquatic Life	pH				5A			1.79	2012	2024
F12R-13-BAC	Pollard Creek									
Recreation	Escherichia coli				5A			4.06	2012	2024
F12R-13-PH	Pollard Creek									
Aquatic Life	pH				5A			4.06	2012	2024
F13E-01-BAC	Pamunkey River									
Recreation	Escherichia coli				5A	0.305			2008	2020
F13R-02-PH	Totopotomoy Creek									
Aquatic Life	pH				5C			10.26	2004	2016
F13R-03-BAC	Jacks Creek and major tributaries									
Recreation	Escherichia coli				5A			21.05	2008	2020
F13R-03-DO	Jacks Creek and major tributaries									
Aquatic Life	Oxygen, Dissolved				5C			21.05	2002	2014
	Oxygen, Dissolved				5C			6.79	2012	2024



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York River Basin		Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause								
F13R-04-PCB Fish Consumption	Moncui Creek, Webb Creek PCB in Fish Tissue			5A			12.39	2010	2022
F13R-04-PH Aquatic Life	Moncui Creek, Webb Creek pH			5C			12.39	2002	2014
F13R-05-DO Aquatic Life	Governor Swamp Oxygen, Dissolved			5C			3.24	2010	2022
F13R-05-PH Aquatic Life	Governor Swamp pH			5C			3.24	2010	2022
F13R-06-DO Aquatic Life	Sullens Creek Oxygen, Dissolved			5C			4.55	2012	2024
F13R-06-PH Aquatic Life	Sullens Creek pH			5C			4.55	2004	2016
F13R-09-BAC Recreation	UT XDX to UT XDW to Pamunkey River Escherichia coli			5A			3.85	2012	2016
F13R-09-PH Aquatic Life	UT XDX to UT XDW to Pamunkey River pH			5C			3.85	2012	2024
F13R-10-PH Aquatic Life	Mallory Creek pH			5A			4.02	2012	2024
F13R-11-BAC Recreation	UT XDW to Pamunkey River Escherichia coli			5A			5.51	2012	2024
F13R-11-PH Aquatic Life	UT XDW to Pamunkey River pH			5C			5.51	2012	2024
F13R-12-PH Aquatic Life	Judy Swamp pH			5C			3.32	2012	2024
F13R-13-HG Fish Consumption	Pamunkey River Mercury in Fish Tissue			5A	1.083		11.49	2006	2018
	Mercury in Fish Tissue			5A	9.424			2010	2018
F13R-13-PCB Fish Consumption	Pamunkey River PCB in Fish Tissue			5A	10.507		11.49	2010	2022
F13R-14-PH Aquatic Life	Mehixen Creek and tributary XIV pH			5C			6.42	2012	2024
F14E-01-BAC Recreation	Pamunkey River Escherichia coli			5A	3.634			2010	2022
F14E-05-EBEN Aquatic Life	Pamunkey River Estuarine Bioassessments			5A	5.284			2010	2022
F14E-06-BAC Recreation	Harrison Creek Escherichia coli			5A	0.048			2012	2024



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
F14R-01-DO Aquatic Life	Cohoke Mill Creek Oxygen, Dissolved	5C			6.17	2010	2022
F14R-02-BAC Recreation	Harrison Creek Escherichia coli	5A			2.80	2008	2020
F14R-03-PH Aquatic Life	UT to Cohoke Mill Creek pH	5C			2.23	2004	2016
F14R-04-BAC Recreation	XJD - Harrison Creek, UT Escherichia coli	5A			0.16	2012	2024
F14R-04-PH Aquatic Life	XJD - Harrison Creek, UT pH	5A			0.16	2012	2024
F15R-01-BEN Aquatic Life	Ni River Benthic-Macroinvertebrate Bioassessments	5A			5.42	2010	2022
F15R-01-DO Aquatic Life	Brock Run Oxygen, Dissolved	5A			2.17	2012	2024
F15R-02-BAC Recreation	Brock Run Escherichia coli	5A			2.17	2008	2020
F15R-02-DO Aquatic Life	Lewis Run Oxygen, Dissolved	5A			1.04	2012	2024
F15R-03-DO Aquatic Life	Unnamed tributary to Cool Spring Lake Oxygen, Dissolved	5A			1.27	2012	2024
F16R-01-BAC Recreation	Po River Escherichia coli	5A			7.13	2010	2022
F16R-02-BAC Recreation	Gladys Run Escherichia coli	5A			8.61	2010	2022
F17L-01-HG Fish Consumption	Bowies Pond Mercury in Fish Tissue	5A		25.37		2008	2020
F17R-02-BAC Recreation	Mattaponi River Escherichia coli	5A			3.14	2008	2020
F17R-03-BAC Recreation	Poni River Escherichia coli	5A			3.07	2010	2022
F18R-01-DO Aquatic Life	Ta River Oxygen, Dissolved	5C			3.30	2010	2022
F18R-02-BAC Recreation	Matta River Escherichia coli	5A			11.15	2004	2016
F18R-02-PH Aquatic Life	Ta River pH	5C			3.30	2010	2022



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York River Basin		Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause									
F18R-03-BEN	Matta River									
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A						1.20	2008	2020
F19R-01-BAC	South River									
Recreation	Escherichia coli	5A						3.26	2004	2016
F20R-01-PH	Polecat Creek									
Aquatic Life	pH	5C						6.66	2004	2016
F20R-02-BAC	Polecat Creek									
Recreation	Escherichia coli	5A						5.07	2012	2024
F21R-01-BEN	Herring Creek									
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A						4.57	2008	2020
F21R-01-HG	Herring Creek									
Fish Consumption	Mercury in Fish Tissue	5A						6.99	2006	2018
F21R-02-HG	Mattaponi River									
Fish Consumption	Mercury in Fish Tissue	5A	3.684					15.61	2006	2018
	Mercury in Fish Tissue	5A	3.254						2010	2018
F21R-03-BAC	Reedy Creek									
Recreation	Escherichia coli	5A						12.43	2010	2022
F21R-03-HG	Reedy Creek and Reedy Millpond									
Fish Consumption	Mercury in Fish Tissue	5A				41.08		12.55	2010	2022
F21R-04-PH	Chapel Creek									
Aquatic Life	pH	5C						4.44	2008	2020
F22L-01-HG	Collins Pond									
Fish Consumption	Mercury in Fish Tissue	5A					53.56		2010	2022
F22R-01-BAC	Maracossic Creek									
Recreation	Escherichia coli	5A						4.27	2006	2018
F22R-02-PH	Root Swamp									
Aquatic Life	pH	5C						7.63	2006	2018
F22R-03-DO	Unnamed tributary to Root Swamp									
Aquatic Life	Oxygen, Dissolved	5C						0.70	2006	2018
F22R-03-PH	Unnamed tributary to Root Swamp									
Aquatic Life	pH	5C						0.70	2006	2018
F22R-04-PH	Beverly Run									
Aquatic Life	pH	5C						3.19	2008	2020
F22R-05-PH	Doctors Creek									
Aquatic Life	pH	5C						2.21	2008	2020
F23E-03-BAC	Mattaponi River									
Recreation	Escherichia coli	5A	0.159						2012	2024



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York River Basin		Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Cause Group Code	Impaired Use								
F23R-01-BAC	Garnetts Creek								
Recreation	Escherichia coli			5A			2.83	2010	2022
F23R-02-DO	Dickeys Swamp, Garnetts Creek, and Tributaries								
Aquatic Life	Oxygen, Dissolved			5C			11.30	2002	2014
	Oxygen, Dissolved			5C			9.74	2010	2014
F23R-03-DO	Walkerton Branch								
Aquatic Life	Oxygen, Dissolved			5C			4.63	2006	2018
F23R-03-PH	Walkerton Branch								
Aquatic Life	pH			5C			4.63	2004	2016
F23R-04-BAC	Aylett Creek								
Recreation	Escherichia coli			5A			6.60	2012	2024
F23R-04-PH	Aylett Creek								
Aquatic Life	pH			5A			6.60	2012	2024
F23R-06-PCB	Mattaponi River								
Fish Consumption	PCB in Fish Tissue			5A	0.159		4.71	2006	2018
	PCB in Fish Tissue			5A			10.90	2010	2022
	PCB in Fish Tissue			5A	6.779			2010	2018
F23R-07-PH	Walkerton Branch								
Aquatic Life	pH			5C			0.17	2012	2024
F24R-02-PH	Mill Creek								
Aquatic Life	pH			5C			0.40	2012	2024
F25R-02-DO	Tastine Swamp								
Aquatic Life	Oxygen, Dissolved			5C			2.15	2010	2022
F26E-01-PCB	York River and Tributaries								
Fish Consumption	PCB in Fish Tissue			5A	0.506			2002	2014
	PCB in Fish Tissue			5A	57.302			2006	2018
F26E-02-SF	Aberdeen Creek								
Shellfishing	Fecal Coliform			5B	0.022			2002	2014
F26E-06-SF	Fox Creek								
Shellfishing	Fecal Coliform			5B	0.022			2006	2018
F26E-10-SF	Carter Creek / York River								
Shellfishing	Fecal Coliform			5B	0.030			2004	2016
	Fecal Coliform			5B	0.024			2012	2016
F26L-01-DO	Waller Mill Reservoir								
Aquatic Life	Oxygen, Dissolved			5A		287.70		2006	2018
F26R-01-BAC	Carter Creek								
Recreation	Fecal Coliform			5A			2.30	2004	2016



2012 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

York River Basin

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use		Cause						
F26R-01-BEN	Carter Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.30	2004	2016
F26R-02-BEN	XEA - Bland Creek, UT							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.21	2008	2020
F26R-03-DO	France Swamp							
Aquatic Life		Oxygen, Dissolved	5A			0.85	2010	2022
F26R-04-BEN	Bird Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.43	2012	2024
F27E-20-SF	Cedarbrush Creek							
Shellfishing		Fecal Coliform	5B	0.014			2010	2022

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.



2012 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
N01R-01-BAC Recreation	Big Horse Creek Fecal Coliform Escherichia coli	5A 5A			2.99 2.99	2004 2004	2016 2016
N01R-02-BAC Recreation	Little Helton Creek Fecal Coliform Escherichia coli	5A 5A			3.42 3.42	2004 2010	2016 2016
N02R-02-BAC Recreation	New River and Grassy Creek Fecal Coliform Escherichia coli Escherichia coli Escherichia coli	5A 5A 5A 5A			8.89 8.89 3.59 6.02	2004 2010 2010 2012	2016 2016 2022 2024
N02R-02-HG Fish Consumption	New River Mercury in Fish Tissue Mercury in Fish Tissue Mercury in Fish Tissue	5A 5A 5A			27.39 1.50 3.54	2006 2008 2010	2018 2018 2022
N02R-03-BAC Recreation	Wilson Creek Fecal Coliform Escherichia coli	5A 5A			8.81 8.81	2004 2010	2016 2016
N03R-01-BAC Recreation	Fox Creek Fecal Coliform Escherichia coli Escherichia coli	5A 5A 5A			7.67 7.67 10.90	2004 2010 2010	2016 2016 2022
N04R-02-BAC Recreation	Little River Escherichia coli	5A			5.24	2012	2024
N04R-03-BAC Recreation	Peach Bottom Creek Fecal Coliform Escherichia coli Escherichia coli	5A 5A 5A			2.73 2.73 13.41	2004 2006 2012	2016 2016 2024
N04R-07-BAC Recreation	Saddle Creek Escherichia coli	5A			3.09	2006	2018
N05R-01-BEN Aquatic Life	Elk Creek Benthic-Macroinvertebrate Bioassessments	5A			8.94	2008	2020
N06R-03-BAC Recreation	Meadow Creek Escherichia coli	5A			9.63	2010	2022
N07R-01-BAC Recreation	Crooked Creek Fecal Coliform Escherichia coli	5A 5A			20.77 24.95	2004 2010	2016 2016
N07R-01-TEMP Aquatic Life	Crooked Creek Temperature, water	5A			4.18	2010	2022



2012 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
N08R-01-BAC Recreation	New River and Tributaries Escherichia coli Fecal Coliform Escherichia coli Escherichia coli Escherichia coli Escherichia coli	5A			0.65 3.63 5.66 3.63 1.32 3.12	2004 2004 2006 2010 2010 2012	2016 2016 2016 2016 2022 2024
N08R-03-BAC Recreation	Shorts Creek and Unnamed Tributary Fecal Coliform Fecal Coliform Escherichia coli	5A			6.73 3.74 10.47	2004 2006 2010	2016 2016 2016
N09R-03-BAC Recreation	Slate Spring Branch and Dean Branch Fecal Coliform Escherichia coli Escherichia coli	5A			5.90 5.90 1.74	2004 2010 2010	2016 2016 2022
N10R-01-TEMP Aquatic Life	Reed Creek Temperature, water	5A			1.44	2012	2024
N10R-02-BAC Recreation	South Fork Reed Creek and Mill Creek Escherichia coli Escherichia coli	5A			12.90 14.54	2006 2012	2018 2024
N10R-02-TEMP Aquatic Life	Reed Creek Temperature, water	5A			5.17	2012	2024
N10R-03-BAC Recreation	Stony Fork Escherichia coli Escherichia coli	5A			1.89 4.77	2006 2012	2018 2024
N10R-04-BAC Recreation	Tate Run Escherichia coli	5A			0.52	2006	2018
N11R-01-BAC Recreation	Reed Creek Fecal Coliform Escherichia coli Escherichia coli Escherichia coli Escherichia coli	5A			1.44 20.62 1.44 6.15 13.95	2002 2006 2008 2010 2012	2014 2018 2014 2022 2024
N11R-02-BAC Recreation	Miller Creek Escherichia coli Escherichia coli	5A			0.42 3.76	2006 2012	2018 2024
N11R-02-BEN Aquatic Life	Reed Creek tributary and Miller Creek Benthic-Macroinvertebrate Bioassessments	5A			5.72	2010	2022
N11R-03-BAC Recreation	McGavock Creek Escherichia coli	5A			2.45	2012	2024



2012 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
N12R-01-BAC Recreation	Cove Creek Escherichia coli	5A			9.10	2006	2018
N13R-01-BAC Recreation	Big Reed Island Creek Escherichia coli	5A			19.16	2008	2020
N13R-01-BEN Aquatic Life	Big Reed Island Creek Benthic-Macroinvertebrate Bioassessments	5A			19.16	2008	2020
N13R-01-TEMP Aquatic Life	Snake Creek Temperature, water	5A			3.54	2010	2022
N14R-01-BAC Recreation	Big Reed Island Creek Fecal Coliform Escherichia coli	5A 5A			7.49 13.58	2004 2010	2016 2022
N14R-02-BAC Recreation	Greasy Creek Escherichia coli	5A			13.12	2008	2020
N14R-02-TEMP Aquatic Life	Big Reed Island Creek Temperature, water	5A			26.70	2012	2024
N14R-03-BAC Recreation	Big Reed Island Creek Escherichia coli	5A			9.77	2008	2020
N14R-03-BEN Aquatic Life	Island Creek Benthic-Macroinvertebrate Bioassessments	5A			6.21	2012	2024
N15R-01-BAC Recreation	Little Reed Island Creek Escherichia coli	5A			34.87	2008	2020
N15R-01-TEMP Aquatic Life	Little Reed Island Creek Temperature, water	5A			19.34	2008	2020
N18R-02-BAC Recreation	Connellys Run Escherichia coli	5A			2.75	2010	2016
N18R-03-BAC Recreation	Plum Creek Escherichia coli	5A			4.57	2010	2016
N19R-01-BAC Recreation	Little River (Upper) Escherichia coli	5A			33.55	2006	2016
N19R-01-TEMP Aquatic Life	Little River Temperature, water Temperature, water	5C 5C			10.91 22.64	2002 2008	2014 2014
N19R-02-BAC Recreation	Meadow Run Escherichia coli	5A			3.70	2006	2018
N19R-02-BEN Aquatic Life	Meadow Run Benthic-Macroinvertebrate Bioassessments	5A			3.70	2008	2020
N19R-03-BAC Recreation	Pine Creek Escherichia coli	5A			3.66	2006	2018



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Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
N19R-03-TEMP Aquatic Life	Pine Creek Temperature, water	5C			3.66	2008	2020
N20R-01-TEMP Aquatic Life	West Fork Dodd Creek Temperature, water	5C			1.17	2002	2014
N20R-02-TEMP Aquatic Life	Dodd Creek Temperature, water Temperature, water	5C 5C			6.28 2.19	2008 2010	2020 2020
N21R-01-BAC Recreation	Little River (Lower) Fecal Coliform Escherichia coli Fecal Coliform Escherichia coli Escherichia coli Escherichia coli Escherichia coli Escherichia coli	5A 5A 5A 5A 5A 5A 5A 5A		60.44	13.33 3.66 8.01 0.48 1.35 4.38 12.22	2004 2006 2006 2008 2010 2012 2012	2016 2016 2016 2016 2016 2014 2016
N21R-01-BEN Aquatic Life	Little River Benthic-Macroinvertebrate Bioassessments	5A			16.99	2008	2020
N21R-02-BAC Recreation	Meadow Creek Escherichia coli	5A			4.49	2010	2014
N21R-05-BAC Recreation	Brush Creek Escherichia coli	5A			5.76	2012	2016
N21R-06-BAC Recreation	Laurel Creek Escherichia coli	5A			3.26	2012	2016
N21R-07-BAC Recreation	Big Indian Creek Escherichia coli	5A			7.56	2010	2022
N22R-02-BAC Recreation	Stroubles Creek Escherichia coli Escherichia coli	5A 5A			4.98 2.10	2006 2010	2014 2014
N22R-04-TEMP Aquatic Life	Toms Creek Temperature, water Temperature, water	5C 5C			5.23 5.72	2008 2012	2020 2020
N22R-06-BEN Aquatic Life	Unnamed Tributaries XEJ and XEH to Slate Branch Benthic-Macroinvertebrate Bioassessments	5A			2.64	2008	2020
N23R-01-BAC Recreation	Sinking Creek Escherichia coli	5A			20.96	2010	2022
N23R-01-TEMP Aquatic Life	Sinking Creek Temperature, water	5C			2.99	2010	2022



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Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin		Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Cause Group Code	Water Name								
N24R-01-DDE	New River								
Fish Consumption	DDE			5A			9.63	2004	2016
N24R-01-DDT	New River								
Fish Consumption	DDT			5A			9.63	2004	2016
N24R-01-HEPOXID	New River								
Fish Consumption	Heptachlor epoxide			5A			9.63	2006	2018
N25R-01-BAC	Walker Creek and Town Creek								
Recreation	Escherichia coli			5A			68.04	2006	2018
	Fecal Coliform			5A			24.46	2006	2018
	Escherichia coli			5A			4.00	2010	2022
N26R-01-BAC	East Wilderness Creek, Nobusiness Creek and Kimberling Creek								
Recreation	Fecal Coliform			5A			4.74	2002	2014
	Escherichia coli			5A			9.57	2010	2022
N27R-01-BAC	Little Walker Creek								
Recreation	Escherichia coli			5A			17.16	2006	2016
N29R-01-PCB	New River, Claytor Lake, Peak Creek, Reed Creek and Stony Creek								
Fish Consumption	PCB in Fish Tissue			5A		294.60	55.70	2002	2014
	PCB in Fish Tissue			5A			0.49	2006	2014
	PCB in Fish Tissue			5A		3,991.78	34.13	2006	2018
	PCB in Fish Tissue			5A			8.30	2010	2014
N30R-01-BAC	Wolf Creek								
Recreation	Fecal Coliform			5A			8.98	2002	2014
	Escherichia coli			5A			23.24	2006	2014
	Escherichia coli			5A			3.63	2006	2018
	Escherichia coli			5A			1.83	2010	2014
N30R-01-BEN	Little Creek								
Aquatic Life	Benthic-Macroinvertebrate Bioassessments			5A			1.56	2010	2022
N31R-01-TEMP	Hunting Camp Creek								
Aquatic Life	Temperature, water			5A			8.45	2006	2018
N32R-01-BAC	Wolf Creek								
Recreation	Escherichia coli			5A			16.42	2006	2018
	Escherichia coli			5A			5.51	2006	2016
	Escherichia coli			5A			8.51	2012	2024
N33R-01-BAC	Laurel Creek								
Recreation	Fecal Coliform			5A			1.60	2002	2014
	Escherichia coli			5A			1.60	2006	2014
	Escherichia coli			5A			4.96	2012	2024
N33R-01-TEMP	Dry Fork								
Aquatic Life	Temperature, water			5A			4.96	2012	2024



2012 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
Impaired Use	Cause						
N34R-01-BAC	Rich Creek						
Recreation	Escherichia coli	5A			2.75	2008	2014
N35R-01-BAC	Adair Run						
Recreation	Escherichia coli	5A			0.38	2010	2016
N36R-01-CDANE	Bluestone River						
Fish Consumption	Chlordane	5A			0.59	2004	2016
N36R-01-PCB	Bluestone River						
Fish Consumption	PCB in Fish Tissue	5A			13.20	2002	2012
	PCB in Water Column	5A			1.36	2010	2022
	PCB in Water Column	5A			3.03	2012	2018
N37R-02-DO	Laurel Fork						
Aquatic Life	Oxygen, Dissolved	5C			8.01	2010	2022

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

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